Mara Uriarte

List of Publications by Citations

154 papers	10,348 citations	50 h-index	99 g-index
165 ext. papers	12,940 ext. citations	7.5 avg, IF	6.25 L-index

#	Paper	IF	Citations
154	Deforestation driven by urban population growth and agricultural trade in the twenty-first century. *Nature Geoscience*, **2010**, 3, 178-181	18.3	843
153	ENMeval: An R package for conducting spatially independent evaluations and estimating optimal model complexity for Maxent ecological niche models. *Methods in Ecology and Evolution*, **2014**, 5, 1198-1205	7.7	744
152	Biomass resilience of Neotropical secondary forests. *Nature*, **2016**, 530, 211-4	50.4	557
151	Plant functional traits have globally consistent effects on competition. *Nature*, **2016**, 529, 204-7	50.4	453
150	CTFS-ForestGEO: a worldwide network monitoring forests in an era of global change. *Global Change Biology*, **2015**, 21, 528-49	11.4	368
149	Agricultural intensification and changes in cultivated areas, 1970-2005. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20675-80	11.5	359
148	Carbon sequestration potential of second-growth forest regeneration in the Latin American tropics. *Science Advances*, **2016**, 2, e1501639	14.3	289
147	DNA barcodes for ecology, evolution, and conservation. *Trends in Ecology and Evolution*, **2015**, 30, 25-35	10.9	260
146	A spatially explicit model of sapling growth in a tropical forest: does the identity of neighbours matter?. *Journal of Ecology*, **2004**, 92, 348-360	6	233
145	Pervasive shifts in forest dynamics in a changing world. *Science*, **2020**, 368,	33.3	227
144	Neighborhood analyses of canopy tree competition along environmental gradients in New England forests **2006**, 16, 540-54		195
143	A NEIGHBORHOOD ANALYSIS OF TREE GROWTH AND SURVIVAL IN A HURRICANE-DRIVEN TROPICAL FOREST. *Ecological Monographs*, **2004**, 74, 591-614	9	192
142	Global importance of large-diameter trees. *Global Ecology and Biogeography*, **2018**, 27, 849-864	6.1	185
141	Biodiversity recovery of Neotropical secondary forests. *Science Advances*, **2019**, 5, eaau3114	14.3	161
140	Trait similarity, shared ancestry and the structure of neighbourhood interactions in a subtropical wet forest: implications for community assembly. *Ecology Letters*, **2010**, 13, 1503-14	10	155
139	Phylogenetic and functional alpha and beta diversity in temperate and tropical tree communities. *Ecology*, **2012**, 93, S112-S125	4.6	152
138	Ecosystem services research in Latin America: The state of the art. *Ecosystem Services*, **2012**, 2, 56-70	6.1	139

137	Temporal turnover in the composition of tropical tree communities: functional determinism and phylogenetic stochasticity. *Ecology*, **2012**, 93, 490-9	4.6	135
136	Influence of land use on water quality in a tropical landscape: a multi-scale analysis. *Landscape Ecology*, **2011**, 26, 1151-1164	4.3	132
135	The relationship between tree biodiversity and biomass dynamics changes with tropical forest succession. *Ecology Letters*, **2014**, 17, 1158-67	10	130
134	Advances in the use of DNA barcodes to build a community phylogeny for tropical trees in a Puerto Rican forest dynamics plot. *PLoS ONE*, **2010**, 5, e15409	3.7	120
133	Strategic approaches to restoring ecosystems can triple conservation gains and halve costs. *Nature Ecology and Evolution*, **2019**, 3, 62-70	12.3	118
132	Trait-mediated assembly processes predict successional changes in community diversity of tropical forests. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 5616-21	11.5	116
131	Abiotic and biotic drivers of seedling survival in a hurricane-impacted tropical forest. *Journal of Ecology*, **2009**, 97, 1346-1359	6	116
130	Natural disturbance and human land use as determinants of tropical forest dynamics: results from a forest simulator. *Ecological Monographs*, **2009**, 79, 423-443	9	114
129	Integrating frugivory and animal movement: a review of the evidence and implications for scaling seed dispersal. *Biological Reviews*, **2013**, 88, 255-72	13.5	111
128	Seedling recruitment in a hurricane-driven tropical forest: light limitation, density-dependence and the spatial distribution of parent trees. *Journal of Ecology*, **2005**, 93, 291-304	6	111
127	Biodiversity and climate determine the functioning of Neotropical forests. *Global Ecology and Biogeography*, **2017**, 26, 1423-1434	6.1	110
126	High-yield oil palm expansion spares land at the expense of forests in the Peruvian Amazon. *Environmental Research Letters*, **2011**, 6, 044029	6.2	97
125	Land-use-driven stream warming in southeastern Amazonia. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20120153	5.8	91
124	Tropical reforestation and climate change: beyond carbon. *Restoration Ecology*, **2015**, 23, 337-343	3.1	90
123	Natural regeneration in the context of large-scale forest and landscape restoration in the tropics. *Biotropica*, **2016**, 48, 709-715	2.3	87
122	Forest transitions: An introduction. *Land Use Policy*, **2010**, 27, 95-97	5.6	84
121	Interspecific relationships among growth, mortality and xylem traits of woody species from New Zealand. *Functional Ecology*, **2010**, 24, 253-262	5.6	83
120	Forest recovery in a tropical landscape: what is the relative importance of biophysical, socioeconomic, and landscape variables?. *Landscape Ecology*, **2009**, 24, 629-642	4.3	83

119	Prevention of invasive fungal infections in liver transplant recipients: the role of prophylaxis with lipid formulations of amphotericin B in high-risk patients. *Journal of Antimicrobial Chemotherapy*, **2003**, 52, 813-9	5.1	82
118	Do community-weighted mean functional traits reflect optimal strategies?. *Proceedings of the Royal Society B: Biological Sciences*, **2016**, 283, 20152434	4.4	81
117	Anthropogenic and environmental drivers of modern range loss in large mammals. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 4024-9	11.5	79
116	Tall Amazonian forests are less sensitive to precipitation variability. *Nature Geoscience*, **2018**, 11, 405-409	18.3	78
115	Disentangling the drivers of reduced long-distance seed dispersal by birds in an experimentally fragmented landscape. *Ecology*, **2011**, 92, 924-37	4.6	77
114	Trait-dependent response of dung beetle populations to tropical forest conversion at local and regional scales. *Ecology*, **2013**, 94, 180-9	4.6	75
113	North Tropical Atlantic influence on western Amazon fire season variability. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	72
112	Legume abundance along successional and rainfall gradients in Neotropical forests. *Nature Ecology and Evolution*, **2018**, 2, 1104-1111	12.3	71
111	Wet and dry tropical forests show opposite successional pathways in wood density but converge over time. *Nature Ecology and Evolution*, **2019**, 3, 928-934	12.3	70
110	Sources of anthropogenic fire ignitions on the peat-swamp landscape in Kalimantan, Indonesia. *Global Environmental Change*, **2016**, 39, 205-219	10.1	58
109	Multidimensional trade-offs in species responses to disturbance: implications for diversity in a subtropical forest. *Ecology*, **2012**, 93, 191-205	4.6	58
108	Variation in Susceptibility to Hurricane Damage as a Function of Storm Intensity in Puerto Rican Tree Species. *Biotropica*, **2010**, 42, 87-94	2.3	56
107	Expansion of sugarcane production in São Paulo, Brazil: Implications for fire occurrence and respiratory health. *Agriculture, Ecosystems and Environment*, **2009**, 132, 48-56	5.7	54
106	Environmental heterogeneity and biotic interactions mediate climate impacts on tropical forest regeneration. *Global Change Biology*, **2018**, 24, e692-e704	11.4	51
105	Ontogenetic shifts in trait-mediated mechanisms of plant community assembly. *Ecology*, **2015**, 96, 2157-69	4.6	50
104	A trait-mediated, neighbourhood approach to quantify climate impacts on successional dynamics of tropical rainforests. *Functional Ecology*, **2016**, 30, 157-167	5.6	49
103	Biophysical and Socioeconomic Factors Associated with Forest Transitions at Multiple Spatial and Temporal Scales. *Ecology and Society*, **2011**, 16,	4.1	47
102	Long-lasting effects of land use history on soil fungal communities in second-growth tropical rain forests **2016**, 26, 1881-1895		47

101	Effects of forest fragmentation on the seedling recruitment of a tropical herb: assessing seed vs. safe-site limitation. *Ecology*, **2010**, 91, 1317-28	4.6	46
100	Linking spatial patterns of leaf litterfall and soil nutrients in a tropical forest: a neighborhood approach. *Ecological Applications*, **2015**, 25, 2022-34	4.9	44
99	Functional convergence and phylogenetic divergence during secondary succession of subtropical wet forests in Puerto Rico. *Journal of Vegetation Science*, **2016**, 27, 283-294	3.1	44
98	Constructing a Broader and More Inclusive Value System in Science. *BioScience*, **2007**, 57, 71-78	5.7	43
97	Hurricane Disturbance Alters Secondary Forest Recovery in Puerto Rico. *Biotropica*, **2010**, 42, 149-157	2.3	42
96	Topography and neighborhood crowding can interact to shape species growth and distribution in a diverse Amazonian forest. *Ecology*, **2018**, 99, 2272-2283	4.6	40
95	Hurricane Mar tripled stem breaks and doubled tree mortality relative to other major storms. *Nature Communications*, **2019**, 10, 1362	17.4	38
94	Life-history trade-offs during the seed-to-seedling transition in a subtropical wet forest community. *Journal of Ecology*, **2013**, 101, 171-182	6	38
93	Environmental gradients and the evolution of successional habitat specialization: a test case with 14 Neotropical forest sites. *Journal of Ecology*, **2015**, 103, 1276-1290	6	38
92	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. *Biological Conservation*, **2021**, 253, 108907	6.2	36
91	Impacts of climate variability on tree demography in second growth tropical forests: the importance of regional context for predicting successional trajectories. *Biotropica*, **2016**, 48, 780-797	2.3	34
90	Environmental and socioeconomic risk factors associated with visceral and cutaneous leishmaniasis: a systematic review. *Parasitology Research*, **2020**, 119, 365-384	2.4	33
89	Spatially Explicit Metrics of Species Diversity, Functional Diversity, and Phylogenetic Diversity: Insights into Plant Community Assembly Processes. *Annual Review of Ecology, Evolution, and Systematics*, **2017**, 48, 329-351	13.5	32
88	Patch dynamics and community metastability of a subtropical forest: compound effects of natural disturbance and human land use. *Landscape Ecology*, **2010**, 25, 1099-1111	4.3	32
87	Incorporating natural regeneration in forest landscape restoration in tropical regions: synthesis and key research gaps. *Biotropica*, **2016**, 48, 915-924	2.3	31
86	Depopulation of rural landscapes exacerbates fire activity in the western Amazon. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 21546-50	11.5	31
85	Land cover change interacts with drought severity to change fire regimes in Western Amazonia **2014**, 24, 1323-40		30
84	An allometry-based model of the survival strategies of hydraulic failure and carbon starvation. *Ecohydrology*, **2016**, 9, 529-546	2.5	29

83	Six centuries of Upper Indus Basin streamflow variability and its climatic drivers. *Water Resources Research*, **2018**, 54, 5687-5701	5.4	28
82	Environmental controls on coastal coarse aerosols: implications for microbial content and deposition in the near-shore environment. *Environmental Science & Technology*, **2011**, 45, 3386-92	10.3	28
81	Improving predictions of tropical forest response to climate change through integration of field studies and ecosystem modeling. *Global Change Biology*, **2018**, 24, e213-e232	11.4	28
80	Land-use dynamics influence estimates of carbon sequestration potential in tropical second-growth forest. *Environmental Research Letters*, **2017**, 12, 074023	6.2	27
79	The effect of agricultural diversity and crop choice on functional capacity change in grassland conversions. *Journal of Applied Ecology*, **2011**, 48, 609-618	5.8	27
78	Landscape, Environmental and Social Predictors of Hantavirus Risk in São Paulo, Brazil. *PLoS ONE*, **2016**, 11, e0163459	3.7	27
77	The Frequency of Cyclonic Wind Storms Shapes Tropical Forest Dynamism and Functional Trait Dispersion. *Forests*, **2018**, 9, 404	2.8	26
76	Effects of topography on tropical forest structure depend on climate context. *Journal of Ecology*, **2020**, 108, 145-159	6	26
75	Synchrony, compensatory dynamics, and the functional trait basis of phenological diversity in a tropical dry forest tree community: effects of rainfall seasonality. *Environmental Research Letters*, **2016**, 11, 115003	6.2	25
74	The role of functional uniqueness and spatial aggregation in explaining rarity in trees. *Global Ecology and Biogeography*, **2017**, 26, 777-786	6.1	24
73	Interspecific Functional Convergence and Divergence and Intraspecific Negative Density Dependence Underlie the Seed-to-Seedling Transition in Tropical Trees. *American Naturalist*, **2016**, 187, 99-109	3.7	24
72	Local environmental pollution strongly influences culturable bacterial aerosols at an urban aquatic superfund site. *Environmental Science & Technology*, **2012**, 46, 10926-33	10.3	24
71	Interactive effects of land use history and natural disturbance on seedling dynamics in a subtropical forest **2010**, 20, 1270-84		24
70	Climate sensitive size-dependent survival in tropical trees. *Nature Ecology and Evolution*, **2018**, 2, 1436-1442	11.5	23
69	A MODEL OF SIMULTANEOUS EVOLUTION OF COMPETITIVE ABILITY AND HERBIVORE RESISTANCE IN A PERENNIAL PLANT. *Ecology*, **2002**, 83, 2649-2663	4.6	23
68	Fragmentation increases wind disturbance impacts on forest structure and carbon stocks in a western Amazonian landscape **2017**, 27, 1901-1915		22
67	Statistical modeling of patterns in annual reproductive rates. *Ecology*, **2019**, 100, e02706	4.6	22
66	Human-induced trophic cascades along the fecal detritus pathway. *PLoS ONE*, **2013**, 8, e75819	3.7	22

65	Variation of tropical forest assembly processes across regional environmental gradients. *Perspectives in Plant Ecology, Evolution and Systematics*, **2016**, 23, 52-62	3	22
64	Arbuscular mycorrhizal fungal diversity and natural enemies promote coexistence of tropical tree species. *Ecology*, **2017**, 98, 712-720	4.6	21
63	The global abundance of tree palms. *Global Ecology and Biogeography*, **2020**, 29, 1495-1514	6.1	21
62	One size does not fit all: flexible models are required to understand animal movement across scales. *Journal of Animal Ecology*, **2011**, 80, 1088-96	4.7	21
61	Hurricane impacts on dynamics, structure and carbon sequestration potential of forest ecosystems in Southern New England, USA. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2007**, 59, 519-528	2	21
60	Matchmaking and species marriage: a game-theory model of community assembly. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 1787-92	11.5	21
59	The forest transition in São Paulo, Brazil: historical patterns and potential drivers. *Ecology and Society*, **2018**, 23,	4.1	21
58	Hurricane-Induced Rainfall is a Stronger Predictor of Tropical Forest Damage in Puerto Rico Than Maximum Wind Speeds. *Scientific Reports*, **2020**, 10, 4318	4.9	20
57	Climate change and sugarcane expansion increase Hantavirus infection risk. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005705	4.8	20
56	The interaction of land-use legacies and hurricane disturbance in subtropical wet forest: twenty-one years of change. *Ecosphere*, **2016**, 7, e01405	3.1	20
55	Forest tree neighborhoods are structured more by negative conspecific density dependence than by interactions among closely related species. *Ecography*, **2018**, 41, 1114-1123	6.5	19
54	Tree crown overlap improves predictions of the functional neighbourhood effects on tree survival and growth. *Journal of Ecology*, **2019**, 107, 887-900	6	19
53	Variation between individuals fosters regional species coexistence. *Ecology Letters*, **2018**, 21, 1496-1504	10	18
52	Reversals of Reforestation Across Latin America Limit Climate Mitigation Potential of Tropical Forests. *Frontiers in Forests and Global Change*, **2020**, 3,	3.7	18
51	Fragmentation, forest structure, and topography modulate impacts of drought in a tropical forest landscape. *Ecology*, **2019**, 100, e02677	4.6	17
50	Low plant density enhances gene dispersal in the Amazonian understory herb Heliconia acuminata. *Molecular Ecology*, **2013**, 22, 5716-29	5.7	17
49	Climate, landowner residency, and land cover predict local scale fire activity in the Western Amazon. *Global Environmental Change*, **2015**, 31, 144-153	10.1	17
48	Perceptional and socio-demographic factors associated with household drinking water management strategies in rural Puerto Rico. *PLoS ONE*, **2014**, 9, e88059	3.7	17

47	A well-resolved phylogeny of the trees of Puerto Rico based on DNA barcode sequence data. *PLoS ONE*, **2014**, 9, e112843	3.7	17
46	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. *Journal of Ecology*, **2016**, 104, 90-103	6	17
45	Growth of an understory herb is chronically reduced in Amazonian forest fragments. *Biological Conservation*, **2011**, 144, 830-835	6.2	14
44	Seven centuries of reconstructed Brahmaputra River discharge demonstrate underestimated high discharge and flood hazard frequency. *Nature Communications*, **2020**, 11, 6017	17.4	14
43	Abrupt Change in Forest Height along a Tropical Elevation Gradient Detected Using Airborne Lidar. *Remote Sensing*, **2016**, 8, 864	5	14
42	Synthesis: Land Transitions in the Tropics. *Biotropica*, **2010**, 42, 59-62	2.3	13
41	Is there tree senescence? The fecundity evidence. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	13
40	Interactions among mutualism, competition, and predation foster species coexistence in diverse communities. *Theoretical Ecology*, **2015**, 8, 297-312	1.6	12
39	Associations among arbuscular mycorrhizal fungi and seedlings are predicted to change with tree successional status. *Ecology*, **2018**, 99, 607-620	4.6	12
38	Decomposing recruitment limitation for an avian-dispersed rain forest tree in an anciently fragmented landscape. *Journal of Ecology*, **2013**, 101, 1439-1448	6	12
37	Land-use history augments environment–plant community relationship strength in a Puerto Rican wet forest. *Journal of Ecology*, **2016**, 104, 1466-1477	6	11
36	Asymmetric dispersal and colonization success of Amazonian plant-ants queens. *PLoS ONE*, **2011**, 6, e22937	3.7	11
35	Land Transitions in the Tropics: Going Beyond the Case Studies. *Biotropica*, **2010**, 42, 1-2	2.3	11
34	Soil nitrogen concentration mediates the relationship between leguminous trees and neighbor diversity in tropical forests. *Communications Biology*, **2020**, 3, 317	6.7	10
33	Rapid remote sensing assessment of impacts from Hurricane Maria on forests of Puerto Rico		8
32	Species-time-area and phylogenetic-time-area relationships in tropical tree communities. *Ecology and Evolution*, **2013**, 3, 1173-83	2.8	7
31	Changes in Phylogenetic Community Structure of the Seedling Layer Following Hurricane Disturbance in a Human-Impacted Tropical Forest. *Forests*, **2018**, 9, 556	2.8	7
30	Effects of neighborhood trait composition on tree survival differ between drought and postdrought periods. *Ecology*, **2019**, 100, e02766	4.6	6

29	Corrigendum to The relationship between tree biodiversity and biomass dynamics changes with tropical forest succession *Ecology Letters*, **2014**, 17, 1478-1478	10	6
28	Dry conditions and disturbance promote liana seedling survival and abundance. *Ecology*, **2019**, 100, e02556	4.6	6
27	Disturbance and resilience in the Luquillo Experimental Forest. *Biological Conservation*, **2021**, 253, 108891	6.2	6
26	The scale dependency of trait-based tree neighborhood models. *Journal of Vegetation Science*, **2020**, 31, 581-593	3.1	5
25	Large-scale, image-based tree species mapping in a tropical forest using artificial perceptual learning. *Methods in Ecology and Evolution*, **2021**, 12, 608-618	7.7	5
24	Topography and Traits Modulate Tree Performance and Drought Response in a Tropical Forest. *Frontiers in Forests and Global Change*, **2020**, 3,	3.7	4
23	Functional recovery of secondary tropical forests. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
22	Diameter growth performance of tree functional groups in Puerto Rican secondary tropical forests. *Forest Systems*, **2014**, 23, 52	0.9	4
21	Globally, tree fecundity exceeds productivity gradients.. *Ecology Letters*, **2022**,	10	4
20	Abundance-dependent effects of neighbourhood dissimilarity and growth rank reversal in a neotropical forest. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	3
19	Preaching to the unconverted **2009**, 19, 592-6		3
18	Rapid remote sensing assessment of impacts from Hurricane Maria on forests of Puerto Rico		3
17	Ephemeral forest regeneration limits carbon sequestration potential in the Brazilian Atlantic Forest. *Global Change Biology*, **2021**, 28, 630	11.4	3
16	Substitution of inland fisheries with aquaculture and chicken undermines human nutrition in the Peruvian Amazon. *Nature Food*, **2021**, 2, 192-197	14.4	3
15	Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. *Nature Communications*, **2021**, 12, 3137	17.4	3
14	Declining diversity of wild-caught species puts dietary nutrient supplies at risk. *Science Advances*, **2021**, 7,	14.3	3
13	Climate change increases potential plant species richness on Puerto Rican uplands. *Climatic Change*, **2019**, 156, 15-30	4.5	2
12	Microsatellite markers for the relict tree Aextoxicon punctatum: the only species in the Chilean endemic family Aextoxicaceae. *American Journal of Botany*, **2011**, 98, e30-2	2.7	2

11	Distribution of biomass dynamics in relation to tree size in forests across the world.. *New Phytologist*, **2022**,	9.8	2
10	Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery.. *Nature Communications*, **2022**, 13, 2381	17.4	2
9	Sharp differentiation on the performance of plant functional groups across natural edges. *Journal of Plant Ecology*, **2018**,	1.7	1
8	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. *PLoS Computational Biology*, **2021**, 17, e1008853	5	1
7	Native forest cover safeguards stream water quality under a changing climate. *Ecological Applications*, **2021**, 31, e02414	4.9	1
6	Tracking the Rates and Mechanisms of Canopy Damage and Recovery Following Hurricane Maria Using Multitemporal Lidar Data. *Ecosystems*,1	3.9	1
5	Environmental and socioeconomic risk factors for visceral and cutaneous leishmaniasis in São Paulo, Brazil. *Science of the Total Environment*, **2021**, 797, 148960	10.2	1
4	Turnover rates of regenerated forests challenge restoration efforts in the Brazilian Atlantic forest. *Environmental Research Letters*, **2022**, 17, 045009	6.2	1
3	Large- and small-seeded species have contrasting functional neighborhoods in a subtropical forest. *Ecosphere*, **2020**, 11, e03016	3.1	0
2	Percolation threshold analyses can detect community assembly processes in simulated and natural tree communities. *Methods in Ecology and Evolution*, **2021**, 12, 2028	7.7	0
1	Topography and Tree Species Improve Estimates of Spatial Variation in Soil Greenhouse Gas Fluxes in a Subtropical Forest. *Ecosystems*,1	3.9	0