

Christopher Baraloto

List of Publications by Year in descending order

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Version: 2024-02-01

136
papers

16,046
citations

24978

57
h-index

18075

120
g-index

142
all docs

142
docs citations

142
times ranked

18313
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental determinants of leaf litter ant community composition along an elevational gradient. <i>Biotropica</i> , 2021, 53, 97-109.	0.8	2
2	Evidence of elemental homeostasis in fine root and leaf tissues of saplings across a fertility gradient in tropical montane forest in Hainan, China. <i>Plant and Soil</i> , 2021, 460, 625-646.	1.8	13
3	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , 2021, 5, 757-767.	3.4	27
4	Revisiting the hyperdominance of Neotropical tree species under a taxonomic, functional and evolutionary perspective. <i>Scientific Reports</i> , 2021, 11, 9585.	1.6	13
5	Resolving whole-plant economics from leaf, stem and root traits of 1467 Amazonian tree species. <i>Oikos</i> , 2021, 130, 1193-1208.	1.2	35
6	Root anatomy helps to reconcile observed root trait syndromes in tropical tree species. <i>American Journal of Botany</i> , 2021, 108, 744-755.	0.8	11
7	Biogeographic history and habitat specialization shape floristic and phylogenetic composition across Amazonian forests. <i>Ecological Monographs</i> , 2021, 91, e01473.	2.4	10
8	The physiological acclimation and growth response of <i>Populus trichocarpa</i> to warming. <i>Physiologia Plantarum</i> , 2021, 173, 1008-1029.	2.6	5
9	At each site its diversity: DNA barcoding reveals remarkable earthworm diversity in neotropical rainforests of French Guiana. <i>Applied Soil Ecology</i> , 2021, 164, 103932.	2.1	11
10	Disentangling the effects of environment and ontogeny on tree functional dimensions for congeneric species in tropical forests. <i>New Phytologist</i> , 2020, 226, 385-395.	3.5	23
11	Quantifying Tropical Plant Diversity Requires an Integrated Technological Approach. <i>Trends in Ecology and Evolution</i> , 2020, 35, 1100-1109.	4.2	16
12	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020, 11, 5515.	5.8	62
13	Morphological variation of fine root systems and leaves in primary and secondary tropical forests of Hainan Island, China. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	9
14	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
15	Independent evolutionary changes in fine-root traits among main clades during the diversification of seed plants. <i>New Phytologist</i> , 2020, 228, 541-553.	3.5	24
16	Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , 2020, 10, 10130.	1.6	53
17	Relative Efficiency of Pitfall Trapping vs. Nocturnal Hand Collecting in Assessing Soil-Dwelling Spider Diversity along A Structural Gradient of Neotropical Habitats. <i>Diversity</i> , 2020, 12, 81.	0.7	12
18	Surprising low diversity of the plant pathogen <i>Phytophthora</i> in Amazonian forests. <i>Environmental Microbiology</i> , 2020, 22, 5019-5032.	1.8	17

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19	Tree communities and soil properties influence fungal community assembly in neotropical forests. <i>Biotropica</i> , 2020, 52, 444-456.	0.8	4
20	Fungi of French Guiana gathered in a taxonomic, environmental and molecular dataset. <i>Scientific Data</i> , 2019, 6, 206.	2.4	4
21	Evolutionary diversity is associated with wood productivity in Amazonian forests. <i>Nature Ecology and Evolution</i> , 2019, 3, 1754-1761.	3.4	32
22	Coordinated community structure among trees, fungi and invertebrate groups in Amazonian rainforests. <i>Scientific Reports</i> , 2019, 9, 11337.	1.6	15
23	Precipitation mediates sap flux sensitivity to evaporative demand in the neotropics. <i>Oecologia</i> , 2019, 191, 519-530.	0.9	14
24	Rarity of monodominance in hyperdiverse Amazonian forests. <i>Scientific Reports</i> , 2019, 9, 13822.	1.6	28
25	Dominant tree species drive beta diversity patterns in western Amazonia. <i>Ecology</i> , 2019, 100, e02636.	1.5	23
26	Habitats shape taxonomic and functional composition of Neotropical ant assemblages. <i>Oecologia</i> , 2019, 189, 501-513.	0.9	30
27	sPlot "A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , 2019, 30, 161-186.	1.1	185
28	A spatiotemporal natural-human database to evaluate road development impacts in an Amazon trinational frontier. <i>Scientific Data</i> , 2019, 6, 93.	2.4	6
29	The Amazonas trap: a new method for sampling plant-inhabiting arthropod communities in tropical forest understory. <i>Entomologia Experimentalis Et Applicata</i> , 2019, 167, 534-543.	0.7	5
30	Trait-based community assembly pattern along a forest succession gradient in a seasonally dry tropical forest. <i>Ecosphere</i> , 2019, 10, e02719.	1.0	24
31	Evidence for trait-based community assembly patterns in hardwood hammock forests. <i>Ecosphere</i> , 2019, 10, e02956.	1.0	6
32	Imaging spectroscopy predicts variable distance decay across contrasting Amazonian tree communities. <i>Journal of Ecology</i> , 2019, 107, 696-710.	1.9	25
33	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019, 25, 39-56.	4.2	265
34	Botanic gardens are an untapped resource for studying the functional ecology of tropical plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20170390.	1.8	16
35	Scientists and Stakeholders, Data and Diagnostics: Crossing Boundaries for Modeling the Impacts of Highway Paving in a Tri-national Frontier in the Amazon. , 2019, , 327-359.		2
36	Coordination and trade-offs among hydraulic safety, efficiency and drought avoidance traits in Amazonian rainforest canopy tree species. <i>New Phytologist</i> , 2018, 218, 1015-1024.	3.5	97

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37	Species Distribution Modelling: Contrasting presence-only models with plot abundance data. <i>Scientific Reports</i> , 2018, 8, 1003.	1.6	113
38	Global trait–environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	3.4	397
39	A methodology to derive global maps of leaf traits using remote sensing and climate data. <i>Remote Sensing of Environment</i> , 2018, 218, 69-88.	4.6	104
40	Divergent Secondary Metabolites and Habitat Filtering Both Contribute to Tree Species Coexistence in the Peruvian Amazon. <i>Frontiers in Plant Science</i> , 2018, 9, 836.	1.7	24
41	Understanding the recruitment response of juvenile Neotropical trees to logging intensity using functional traits. <i>Ecological Applications</i> , 2018, 28, 1998-2010.	1.8	11
42	Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , 2017, 7, 39102.	1.6	251
43	Carbon uptake by mature Amazon forests has mitigated Amazon nations' carbon emissions. <i>Carbon Balance and Management</i> , 2017, 12, 1.	1.4	98
44	Maximising Synergy among Tropical Plant Systematists, Ecologists, and Evolutionary Biologists. <i>Trends in Ecology and Evolution</i> , 2017, 32, 258-267.	4.2	52
45	Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. <i>Science</i> , 2017, 355, 925-931.	6.0	443
46	Nutrient-cycling mechanisms other than the direct absorption from soil may control forest structure and dynamics in poor Amazonian soils. <i>Scientific Reports</i> , 2017, 7, 45017.	1.6	76
47	Geographical Variation in Community Divergence: Insights from Tropical Forest Monodominance by Ectomycorrhizal Trees. <i>American Naturalist</i> , 2017, 190, S105-S122.	1.0	19
48	Intraspecific leaf trait variability along a boreal-to-tropical community diversity gradient. <i>PLoS ONE</i> , 2017, 12, e0172495.	1.1	20
49	Economically important species dominate aboveground carbon storage in forests of southwestern Amazonia. <i>Ecology and Society</i> , 2017, 22, .	1.0	10
50	Evolutionary heritage influences Amazon tree ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161587.	1.2	43
51	Taxonomic and functional composition of arthropod assemblages across contrasting Amazonian forests. <i>Journal of Animal Ecology</i> , 2016, 85, 227-239.	1.3	25
52	Rare species contribute disproportionately to the functional structure of species assemblages. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160084.	1.2	277
53	There's no place like home: seedling mortality contributes to the habitat specialisation of tree species across Amazonia. <i>Ecology Letters</i> , 2016, 19, 1256-1266.	3.0	23
54	Low Phylogenetic Beta Diversity and Geographic Neotropical Endemism in Amazonian White-sand Forests. <i>Biotropica</i> , 2016, 48, 34-46.	0.8	52

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55	Habitat Endemism in White-sand Forests: Insights into the Mechanisms of Lineage Diversification and Community Assembly of the Neotropical Flora. <i>Biotropica</i> , 2016, 48, 24-33.	0.8	64
56	Interdependency of plants and animals in controlling the sodium balance of ecosystems and the impacts of global defaunation. <i>Ecography</i> , 2016, 39, 204-212.	2.1	27
57	Positive biodiversity-productivity relationship predominant in global forests. <i>Science</i> , 2016, 354, .	6.0	864
58	Evolutionary patterns of volatile terpene emissions across 202 tropical tree species. <i>Ecology and Evolution</i> , 2016, 6, 2854-2864.	0.8	32
59	Variation in stem mortality rates determines patterns of above-ground biomass in Amazonian forests: implications for dynamic global vegetation models. <i>Global Change Biology</i> , 2016, 22, 3996-4013.	4.2	116
60	Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , 2016, 30, 964-982.	1.9	201
61	Phylogenetic Overdispersion in Lepidoptera Communities of Amazonian White-sand Forests. <i>Biotropica</i> , 2016, 48, 101-109.	0.8	9
62	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016, 529, 204-207.	13.7	655
63	The global spectrum of plant form and function. <i>Nature</i> , 2016, 529, 167-171.	13.7	2,022
64	Contributions of a global network of tree diversity experiments to sustainable forest plantations. <i>Ambio</i> , 2016, 45, 29-41.	2.8	203
65	GuiaTreeKey, a multi-access electronic key to identify tree genera in French Guiana. <i>PhytoKeys</i> , 2016, 68, 27-44.	0.4	6
66	Carbon recovery dynamics following disturbance by selective logging in Amazonian forests. <i>ELife</i> , 2016, 5, .	2.8	45
67	Rapid tree carbon stock recovery in managed Amazonian forests. <i>Current Biology</i> , 2015, 25, 2738.	1.8	6
68	Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , 2015, 21, 1295-1307.	1.9	72
69	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , 2015, 18, 1406-1419.	3.0	768
70	Day-time vs. night-time sampling does not affect estimates of spider diversity across a land use gradient in the Neotropics. <i>Journal of Arachnology</i> , 2015, 43, 413-416.	0.3	4
71	Optimal strategies for sampling functional traits in species-rich forests. <i>Functional Ecology</i> , 2015, 29, 1325-1331.	1.7	19
72	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , 2015, 6, 6857.	5.8	214

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73	Long-term decline of the Amazon carbon sink. <i>Nature</i> , 2015, 519, 344-348.	13.7	796
74	BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015, 96, 1445-1445.	1.5	122
75	Globally, functional traits are weak predictors of juvenile tree growth, and we do not know why. <i>Journal of Ecology</i> , 2015, 103, 978-989.	1.9	131
76	Drought tolerance as predicted by leaf water potential at turgor loss point varies strongly across species within an Amazonian forest. <i>Functional Ecology</i> , 2015, 29, 1268-1277.	1.7	151
77	Rapid tree carbon stock recovery in managed Amazonian forests. <i>Current Biology</i> , 2015, 25, R787-R788.	1.8	88
78	Effects of road infrastructure on forest value across a tri-national Amazonian frontier. <i>Biological Conservation</i> , 2015, 191, 674-681.	1.9	16
79	Estimating the global conservation status of more than 15,000 Amazonian tree species. <i>Science Advances</i> , 2015, 1, e1500936.	4.7	122
80	The Tropical managed Forests Observatory: a research network addressing the future of tropical logged forests. <i>Applied Vegetation Science</i> , 2015, 18, 171-174.	0.9	47
81	Pervasive Local-Scale Tree-Soil Habitat Association in a Tropical Forest Community. <i>PLoS ONE</i> , 2015, 10, e0141488.	1.1	40
82	Are Commonly Measured Functional Traits Involved in Tropical Tree Responses to Climate?. <i>International Journal of Ecology</i> , 2014, 2014, 1-10.	0.3	16
83	Trade-offs among forest value components in community forests of southwestern Amazonia. <i>Ecology and Society</i> , 2014, 19, .	1.0	14
84	Wood specific gravity and anatomy of branches and roots in 113 Amazonian rainforest tree species across environmental gradients. <i>New Phytologist</i> , 2014, 202, 79-94.	3.5	89
85	Estimating tropical tree diversity indices from forestry surveys: A method to integrate taxonomic uncertainty. <i>Forest Ecology and Management</i> , 2014, 328, 270-281.	1.4	25
86	Environmental factors predict community functional composition in Amazonian forests. <i>Journal of Ecology</i> , 2014, 102, 145-155.	1.9	132
87	Leaf synchrony and insect herbivory among tropical tree habitat specialists. <i>Plant Ecology</i> , 2014, 215, 209-220.	0.7	25
88	Logging in bamboo-dominated forests in southwestern Amazonia: Caveats and opportunities for smallholder forest management. <i>Forest Ecology and Management</i> , 2014, 315, 202-210.	1.4	32
89	Hyperdominance in the Amazonian Tree Flora. <i>Science</i> , 2013, 342, 1243092.	6.0	873
90	Trans-boundary infrastructure and land cover change: Highway paving and community-level deforestation in a tri-national frontier in the Amazon. <i>Land Use Policy</i> , 2013, 34, 27-41.	2.5	54

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91	Rapid Simultaneous Estimation of Aboveground Biomass and Tree Diversity Across Neotropical Forests: A Comparison of Field Inventory Methods. <i>Biotropica</i> , 2013, 45, 288-298.	0.8	73
92	Strong coupling of plant and fungal community structure across western Amazonian rainforests. <i>ISME Journal</i> , 2013, 7, 1852-1861.	4.4	333
93	Rare Species Support Vulnerable Functions in High-Diversity Ecosystems. <i>PLoS Biology</i> , 2013, 11, e1001569.	2.6	654
94	Insect herbivores, chemical innovation, and the evolution of habitat specialization in Amazonian trees. <i>Ecology</i> , 2013, 94, 1764-1775.	1.5	91
95	Toward Trait-Based Mortality Models for Tropical Forests. <i>PLoS ONE</i> , 2013, 8, e63678.	1.1	24
96	A comparison of two common flight interception traps to survey tropical arthropods. <i>ZooKeys</i> , 2012, 216, 43-55.	0.5	41
97	Quantifying the importance of local niche-based and stochastic processes to tropical tree community assembly. <i>Ecology</i> , 2012, 93, 760-769.	1.5	86
98	Herbivory, growth rates, and habitat specialization in tropical tree lineages: implications for Amazonian beta-diversity. <i>Ecology</i> , 2012, 93, S195.	1.5	51
99	Differences in volatile terpene composition between the bark and leaves of tropical tree species. <i>Phytochemistry</i> , 2012, 82, 81-88.	1.4	32
100	Phylogenetic density dependence and environmental filtering predict seedling mortality in a tropical forest. <i>Ecology Letters</i> , 2012, 15, 34-41.	3.0	106
101	Leaf, stem and root tissue strategies across 758 neotropical tree species. <i>Functional Ecology</i> , 2012, 26, 1153-1161.	1.7	172
102	Contrasting taxonomic and functional responses of a tropical tree community to selective logging. <i>Journal of Applied Ecology</i> , 2012, 49, 861-870.	1.9	102
103	Is climate a stronger driver of tree growth than disturbance? A comment on Toledo <i>et al.</i> (2011). <i>Journal of Ecology</i> , 2012, 100, 1065-1068.	1.9	3
104	Using functional traits and phylogenetic trees to examine the assembly of tropical tree communities. <i>Journal of Ecology</i> , 2012, 100, 690-701.	1.9	191
105	The decomposition of Shannon's entropy and a confidence interval for beta diversity. <i>Oikos</i> , 2012, 121, 516-522.	1.2	47
106	Nouvelles connaissances sur la dynamique globale de la biomasse aprÃs exploitation en forÃt nord amazonienne. <i>Bois Et Forets Des Tropiques</i> , 2012, 314, 41.	0.2	3
107	Disentangling stand and environmental correlates of aboveground biomass in Amazonian forests. <i>Global Change Biology</i> , 2011, 17, 2677-2688.	4.2	160
108	Functional traits shape ontogenetic growth trajectories of rain forest tree species. <i>Journal of Ecology</i> , 2011, 99, 1431-1440.	1.9	180

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109	Functional traits of individual trees reveal ecological constraints on community assembly in tropical rain forests. <i>Oikos</i> , 2011, 120, 720-727.	1.2	124
110	Within-individual variation of trunk and branch xylem density in tropical trees. <i>American Journal of Botany</i> , 2011, 98, 140-149.	0.8	33
111	Integrating functional diversity into tropical forest plantation designs to study ecosystem processes. <i>Annals of Forest Science</i> , 2010, 67, 303-303.	0.8	14
112	Assessing foliar chlorophyll contents with the SPAD-502 chlorophyll meter: a calibration test with thirteen tree species of tropical rainforest in French Guiana. <i>Annals of Forest Science</i> , 2010, 67, 607-607.	0.8	153
113	Modeling decay rates of dead wood in a neotropical forest. <i>Oecologia</i> , 2010, 164, 243-251.	0.9	57
114	Fine-scale Microhabitat Heterogeneity in a French Guianan Forest. <i>Biotropica</i> , 2010, 42, 420-428.	0.8	33
115	Functional trait variation and sampling strategies in species-rich plant communities. <i>Functional Ecology</i> , 2010, 24, 208-216.	1.7	147
116	Functional explanations for variation in bark thickness in tropical rain forest trees. <i>Functional Ecology</i> , 2010, 24, 1202-1210.	1.7	121
117	Shifts in species and phylogenetic diversity between sapling and tree communities indicate negative density dependence in a lowland rain forest. <i>Journal of Ecology</i> , 2010, 98, 137-146.	1.9	64
118	Growth responses of neotropical trees to logging gaps. <i>Journal of Applied Ecology</i> , 2010, 47, 821-831.	1.9	72
119	Decoupled leaf and stem economics in rain forest trees. <i>Ecology Letters</i> , 2010, 13, 1338-1347.	3.0	312
120	Branch xylem density variations across the Amazon Basin. <i>Biogeosciences</i> , 2009, 6, 545-568.	1.3	84
121	Identification of Amazonian Trees with DNA Barcodes. <i>PLoS ONE</i> , 2009, 4, e7483.	1.1	176
122	Diversity of the Volatile Organic Compounds Emitted by 55 Species of Tropical Trees: a Survey in French Guiana. <i>Journal of Chemical Ecology</i> , 2009, 35, 1349-1362.	0.9	67
123	Dynamics of aboveground carbon stocks in a selectively logged tropical forest. <i>Ecological Applications</i> , 2009, 19, 1397-1404.	1.8	108
124	Seed size, seedling morphology, and response to deep shade and damage in neotropical rain forest trees. <i>American Journal of Botany</i> , 2007, 94, 901-911.	0.8	72
125	Ecological limitations of reduced-impact logging at the smallholder scale. <i>Forest Ecology and Management</i> , 2007, 238, 365-374.	1.4	35
126	Future crop tree damage in a certified community forest in southwestern Amazonia. <i>Forest Ecology and Management</i> , 2007, 242, 108-118.	1.4	28

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127	SEASONAL WATER STRESS TOLERANCE AND HABITAT ASSOCIATIONS WITHIN FOUR NEOTROPICAL TREE GENERA. <i>Ecology</i> , 2007, 88, 478-489.	1.5	68
128	A trait database for Guianan rain forest trees permits intra- and inter-specific contrasts. <i>Annals of Forest Science</i> , 2007, 64, 781-786.	0.8	19
129	Differential seedling growth response to soil resource availability among nine neotropical tree species. <i>Journal of Tropical Ecology</i> , 2006, 22, 487-497.	0.5	48
130	Seed mass, seedling size and neotropical tree seedling establishment. <i>Journal of Ecology</i> , 2005, 93, 1156-1166.	1.9	155
131	PERFORMANCE TRADE-OFFS AMONG TROPICAL TREE SEEDLINGS IN CONTRASTING MICROHABITATS. <i>Ecology</i> , 2005, 86, 2461-2472.	1.5	135
132	Microhabitat associations and seedling bank dynamics in a neotropical forest. <i>Oecologia</i> , 2004, 141, 701-712.	0.9	47
133	Régénération forestière naturelle : de la graine à la jeune tige.. <i>Revue Forestiere Francaise</i> , 2003, , 179.	0.0	2
134	A comparison of five indirect methods for characterizing the light environment in a tropical forest. <i>Annals of Forest Science</i> , 2001, 58, 877-891.	0.8	34
135	Limitations and Applications of Parataxonomy for Community Forest Management in Southwestern Amazonia. <i>Ethnobotany Research and Applications</i> , 0, 5, 077.	0.3	23
136	The water relations of two tropical rainforest species (<i>Virola surinamensis</i> and) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td Hydraulics</i> , 0, 1, e002.	1.0	2