

# Renato Valencia

## List of Publications by Year in descending order

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84  
papers

10,418  
citations

70961

41  
h-index

56606

83  
g-index

85  
all docs

85  
docs citations

85  
times ranked

11647  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beta-Diversity in Tropical Forest Trees. <i>Science</i> , 2002, 295, 666-669.	6.0	1,176
2	Functional Traits and Niche-Based Tree Community Assembly in an Amazonian Forest. <i>Science</i> , 2008, 322, 580-582.	6.0	949
3	Positive biodiversity-productivity relationship predominant in global forests. <i>Science</i> , 2016, 354, .	6.0	864
4	Soil nutrients influence spatial distributions of tropical tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 864-869.	3.3	763
5	<scp>CTFS</scp>â€œForest<scp>GEO</scp></scp>: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , 2015, 21, 528-549.	4.2	473
6	Tree species distributions and local habitat variation in the Amazon: large forest plot in eastern Ecuador. <i>Journal of Ecology</i> , 2004, 92, 214-229.	1.9	443
7	An estimate of the number of tropical tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7472-7477.	3.3	335
8	Global importance of largeâ€œdiameter trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 849-864.	2.7	330
9	High tree alpha-diversity in Amazonian Ecuador. <i>Biodiversity and Conservation</i> , 1994, 3, 21-28.	1.2	322
10	A general framework for the distanceâ€œdecay of similarity in ecological communities. <i>Ecology Letters</i> , 2008, 11, 904-917.	3.0	312
11	An international network to monitor the structure, composition and dynamics of Amazonian forests (RAINFOR). <i>Journal of Vegetation Science</i> , 2002, 13, 439-450.	1.1	285
12	Testing metabolic ecology theory for allometric scaling of tree size, growth and mortality in tropical forests. <i>Ecology Letters</i> , 2006, 9, 575-588.	3.0	280
13	Scaleâ€œdependent relationships between tree species richness and ecosystem function in forests. <i>Journal of Ecology</i> , 2013, 101, 1214-1224.	1.9	265
14	The biogeography and filtering of woody plant functional diversity in North and South America. <i>Global Ecology and Biogeography</i> , 2012, 21, 798-808.	2.7	235
15	The Importance of Demographic Niches to Tree Diversity. <i>Science</i> , 2006, 313, 98-101.	6.0	215
16	Soil resources and topography shape local tree community structure in tropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122532.	1.2	201
17	Assessing Evidence for a Pervasive Alteration in Tropical Tree Communities. <i>PLoS Biology</i> , 2008, 6, e45.	2.6	187
18	Comparing tropical forest tree size distributions with the predictions of metabolic ecology and equilibrium models. <i>Ecology Letters</i> , 2006, 9, 589-602.	3.0	170

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19	Low diversity and high host preference of ectomycorrhizal fungi in Western Amazonia, a neotropical biodiversity hotspot. <i>ISME Journal</i> , 2010, 4, 465-471.	4.4	165
20	The variation of tree beta diversity across a global network of forest plots. <i>Global Ecology and Biogeography</i> , 2012, 21, 1191-1202.	2.7	135
21	Widespread density-dependent seedling mortality promotes species coexistence in a highly diverse Amazonian rain forest. <i>Ecology</i> , 2010, 91, 3675-3685.	1.5	131
22	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , 2021, 253, 108907.	1.9	122
23	NEIGHBORHOOD AND COMMUNITY INTERACTIONS DETERMINE THE SPATIAL PATTERN OF TROPICAL TREE SEEDLING SURVIVAL. <i>Ecology</i> , 2007, 88, 2248-2258.	1.5	117
24	Spatial patterns reveal negative density dependence and habitat associations in tropical trees. <i>Ecology</i> , 2011, 92, 1723-1729.	1.5	112
25	Temporal coexistence mechanisms contribute to the latitudinal gradient in forest diversity. <i>Nature</i> , 2017, 550, 105-108.	13.7	106
26	Habitat filtering across tree life stages in tropical forest communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130548.	1.2	101
27	Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks. <i>Biogeosciences</i> , 2014, 11, 6827-6840.	1.3	89
28	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> , 2013, 280, 20130502.	1.2	78
29	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 1366-1383.	2.7	78
30	Determinants of biased sex ratios and intersex costs of reproduction in dioecious tropical forest trees. <i>American Journal of Botany</i> , 2007, 94, 67-78.	0.8	77
31	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
32	Topography and neighborhood crowding can interact to shape species growth and distribution in a diverse Amazonian forest. <i>Ecology</i> , 2018, 99, 2272-2283.	1.5	72
33	The Contribution of Rare Species to Community Phylogenetic Diversity across a Global Network of Forest Plots. <i>American Naturalist</i> , 2012, 180, E17-E30.	1.0	67
34	Plant traits predict inter- and intraspecific variation in susceptibility to herbivory in a hyperdiverse Neotropical rain forest tree community. <i>Journal of Ecology</i> , 2014, 102, 939-952.	1.9	63
35	Functional trait differences influence neighbourhood interactions in a hyperdiverse Amazonian forest. <i>Ecology Letters</i> , 2016, 19, 1062-1070.	3.0	58
36	Dissecting biomass dynamics in a large Amazonian forest plot. <i>Journal of Tropical Ecology</i> , 2009, 25, 473-482.	0.5	56

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37	CONTRASTING STRUCTURE AND COMPOSITION OF THE UNDERSTORY IN SPECIES-RICH TROPICAL RAIN FORESTS. <i>Ecology</i> , 2006, 87, 2298-2305.	1.5	55
38	Habitat niche partitioning by 16 species of Myristicaceae in Amazonian Ecuador. <i>Plant Ecology</i> , 2007, 192, 193-207.	0.7	54
39	Strong radial variation in wood density follows a uniform pattern in two neotropical rain forests. <i>Functional Ecology</i> , 2013, 27, 684-692.	1.7	48
40	Above-ground forest biomass is not consistently related to wood density in tropical forests. <i>Global Ecology and Biogeography</i> , 2009, 18, 617-625.	2.7	46
41	Seed mass, abundance and breeding system among tropical forest species: do dioecious species exhibit compensatory reproduction or abundances?. <i>Journal of Ecology</i> , 2009, 97, 555-566.	1.9	45
42	Taxonomic scale-dependence of habitat niche partitioning and biotic neighbourhood on survival of tropical tree seedlings. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 4197-4205.	1.2	41
43	Climate sensitive size-dependent survival in tropical trees. <i>Nature Ecology and Evolution</i> , 2018, 2, 1436-1442.	3.4	41
44	Phylogeography of a species complex of lowland Neotropical rain forest trees ( <i>Carapa</i> spp.)	1.4	36
45	Limited carbon and biodiversity co-benefits for tropical forest mammals and birds. <i>Ecological Applications</i> , 2016, 26, 1098-1111.	1.8	34
46	Extinction-Rate Estimates for a Modern Neotropical Flora. <i>Conservation Biology</i> , 2002, 16, 1427-1431.	2.4	31
47	Cryptic species and phylogeographical structure in the tree <i>Cedrela odorata</i> L. throughout the Neotropics. <i>Journal of Biogeography</i> , 2013, 40, 732-746.	1.4	31
48	Useful lianas of the Siona-Secoya Indians from Amazonian Ecuador. <i>Economic Botany</i> , 1995, 49, 269-275.	0.8	29
49	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.	1.2	29
50	Patterns of nitrogen-fixing tree abundance in forests across Asia and America. <i>Journal of Ecology</i> , 2019, 107, 2598-2610.	1.9	29
51	Demographic consequences of chromatic leaf defence in tropical tree communities: do red young leaves increase growth and survival?. <i>Annals of Botany</i> , 2013, 112, 677-684.	1.4	28
52	Amazon diversification and cross-Andean dispersal of the widespread Neotropical tree species <i>Jacaranda copaia</i> (Bignoniaceae). <i>Journal of Biogeography</i> , 2013, 40, 707-719.	1.4	25
53	Plant herbivory responses through changes in leaf quality have no effect on subsequent leaf litter decomposition in a neotropical rain forest tree community. <i>New Phytologist</i> , 2015, 207, 817-829.	3.5	25
54	A taxonomic comparison of local habitat niches of tropical trees. <i>Oecologia</i> , 2013, 173, 1491-1498.	0.9	24

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55	Disentangling the functional trait correlates of spatial aggregation in tropical forest trees. <i>Ecology</i> , 2019, 100, e02591.	1.5	22
56	Filtering dispersal assembly of lowland Neotropical rainforests across the Andes. <i>Ecography</i> , 2018, 41, 1763-1775.	2.1	20
57	Soil nitrogen concentration mediates the relationship between leguminous trees and neighbor diversity in tropical forests. <i>Communications Biology</i> , 2020, 3, 317.	2.0	20
58	Spatially-Explicit Testing of a General Aboveground Carbon Density Estimation Model in a Western Amazonian Forest Using Airborne LiDAR. <i>Remote Sensing</i> , 2016, 8, 9.	1.8	19
59	Composition and structure of a humid montane forest on the Pasochoa volcano, Ecuador. <i>Nordic Journal of Botany</i> , 1992, 12, 239-247.	0.2	17
60	Demography of <i>Oenocarpus bataua</i> and implications for sustainable harvest of its fruit in western Amazon. <i>Population Ecology</i> , 2016, 58, 463-476.	0.7	13
61	Distribution and Community Assembly of Trees Along an Andean Elevational Gradient. <i>Plants</i> , 2019, 8, 326.	1.6	11
62	Temporal population variability in local forest communities has mixed effects on tree species richness across a latitudinal gradient. <i>Ecology Letters</i> , 2020, 23, 160-171.	3.0	11
63	Consistency of demographic trade-offs across 13 (sub)tropical forests. <i>Journal of Ecology</i> , 2022, 110, 1485-1496.	1.9	11
64	Palms, peccaries and perturbations: widespread effects of small-scale disturbance in tropical forests. <i>BMC Ecology</i> , 2012, 12, 3.	3.0	10
65	Landscape diversity patterns and endemism of Araceae in Ecuador. <i>Biodiversity and Conservation</i> , 2004, 13, 1755-1779.	1.2	9
66	Legal and Administrative Regulation of Palms and Other NTFPs in Colombia, Ecuador, Peru and Bolivia. <i>Botanical Review</i> , The, 2011, 77, 327-369.	1.7	9
67	Phylogenetic turnover along local environmental gradients in tropical forest communities. <i>Oecologia</i> , 2016, 182, 547-557.	0.9	9
68	No strong evidence for increasing liana abundance in the Myristicaceae of a Neotropical aseasonal rain forest. <i>Ecology</i> , 2017, 98, 456-466.	1.5	8
69	Stability in a changing world – palm community dynamics in the hyperdiverse western Amazon over 17 years. <i>Global Change Biology</i> , 2017, 23, 1232-1239.	4.2	8
70	Scale-dependent drivers of the phylogenetic structure and similarity of tree communities in northwestern Amazonia. <i>Journal of Ecology</i> , 2021, 109, 888-899.	1.9	8
71	Physical, but not chemical, antiherbivore defense expression is related to the clustered spatial distribution of tropical trees in an Amazonian forest. <i>Ecology and Evolution</i> , 2019, 9, 1750-1763.	0.8	8
72	Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. <i>Global Change Biology</i> , 2022, 28, 2895-2909.	4.2	8

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73	Sex-Specific Flowering Patterns and Demography of the Understorey Rain Forest Tree <i>Iryanthera Hostmannii</i> (Myristicaceae). <i>Tropical Conservation Science</i> , 2013, 6, 637-652.	0.6	7
74	<i>Brownea jaramilloi</i> (Leguminosae: Caesalpinioideae), a new, over-looked species endemic to the Ecuadorian Amazon. <i>Kew Bulletin</i> , 2013, 68, 157-162.	0.4	6
75	Growth strategies of the arborescent palm <i>Iriartea deltoidea</i> in a western Amazonian forest. <i>Botanical Journal of the Linnean Society</i> , 2016, 182, 411-424.	0.8	4
76	Ant Mutualism Increases Long-Term Growth and Survival of a Common Amazonian Tree. <i>American Naturalist</i> , 2016, 188, 567-575.	1.0	4
77	Incidence of Extrafloral Nectaries and Their Relationship with Growth and Survival of Lowland Tropical Rain Forest Trees. <i>Biotropica</i> , 2016, 48, 321-331.	0.8	3
78	Neither species geographic range size, climatic envelope, nor intraspecific leaf trait variability capture habitat specialization in a hyperdiverse Amazonian forest. <i>Biotropica</i> , 2019, 51, 304-310.	0.8	3
79	Habitat filtering of six coexisting <i>Heliconia</i> species in a lowland tropical rain forest in Amazonian Ecuador. <i>Journal of Tropical Ecology</i> , 2019, 35, 91-94.	0.5	3
80	Canopy structure and forest understory conditions in a wet Amazonian forest—No change over the last 20 years. <i>Biotropica</i> , 2020, 52, 1121-1126.	0.8	3
81	A Common But Overlooked New Species in the Hyper-Diverse Genus <i>Inga</i> Mill. from the Northwestern Amazon. <i>Systematic Botany</i> , 2019, 44, 536-547.	0.2	2
82	Environment- and trait-mediated scaling of tree occupancy in forests worldwide. <i>Global Ecology and Biogeography</i> , 2019, 28, 1155-1167.	2.7	2
83	Tree community composition, structure and diversity along an elevational gradient in an Andean forest of Northern Ecuador. <i>Journal of Mountain Science</i> , 2021, 18, 2315-2327.	0.8	2
84	Wind dispersal and 1-year survival of <i>Vataireopsis iglesiasii</i> (Fabaceae) seedlings in a Neotropical lowland rain forest. <i>Biotropica</i> , 0, , .	0.8	1