

# Esteban Álvarez Dávila

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

10,622  
citations

81743

39  
h-index

138251

58  
g-index

61  
all docs

61  
docs citations

61  
times ranked

12532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought Sensitivity of the Amazon Rainforest. <i>Science</i> , 2009, 323, 1344-1347.	6.0	1,443
2	Long-term decline of the Amazon carbon sink. <i>Nature</i> , 2015, 519, 344-348.	13.7	796
3	Rate of tree carbon accumulation increases continuously with tree size. <i>Nature</i> , 2014, 507, 90-93.	13.7	663
4	Plant diversity patterns in neotropical dry forests and their conservation implications. <i>Science</i> , 2016, 353, 1383-1387.	6.0	490
5	Drought mortality relationships for tropical forests. <i>New Phytologist</i> , 2010, 187, 631-646.	3.5	487
6	Basin-wide variations in Amazon forest structure and function are mediated by both soils and climate. <i>Biogeosciences</i> , 2012, 9, 2203-2246.	1.3	487
7	The above-ground coarse wood productivity of 104 Neotropical forest plots. <i>Global Change Biology</i> , 2004, 10, 563-591.	4.2	436
8	Global trait environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	3.4	397
9	Height-diameter allometry of tropical forest trees. <i>Biogeosciences</i> , 2011, 8, 1081-1106.	1.3	396
10	Tree height integrated into pantropical forest biomass estimates. <i>Biogeosciences</i> , 2012, 9, 3381-3403.	1.3	373
11	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , 2019, 569, 404-408.	13.7	371
12	Biodiversity recovery of Neotropical secondary forests. <i>Science Advances</i> , 2019, 5, eaau3114.	4.7	291
13	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019, 25, 39-56.	4.2	265
14	Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , 2017, 7, 39102.	1.6	251
15	Regional and seasonal patterns of litterfall in tropical South America. <i>Biogeosciences</i> , 2010, 7, 43-55.	1.3	250
16	Markedly divergent estimates of Amazon forest carbon density from ground plots and satellites. <i>Global Ecology and Biogeography</i> , 2014, 23, 935-946.	2.7	248
17	Above- and below-ground net primary productivity across ten Amazonian forests on contrasting soils. <i>Biogeosciences</i> , 2009, 6, 2759-2778.	1.3	221
18	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , 2015, 6, 6857.	5.8	214

#	ARTICLE	IF	CITATIONS
19	Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , 2016, 30, 964-982.	1.9	201
20	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
21	Tree above-ground biomass allometries for carbon stocks estimation in the natural forests of Colombia. <i>Forest Ecology and Management</i> , 2012, 267, 297-308.	1.4	182
22	Multidimensional tropical forest recovery. <i>Science</i> , 2021, 374, 1370-1376.	6.0	165
23	Ecosystem heterogeneity determines the ecological resilience of the Amazon to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 793-797.	3.3	161
24	Seasonal drought limits tree species across the Neotropics. <i>Ecography</i> , 2017, 40, 618-629.	2.1	143
25	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
26	Carbon uptake by mature Amazon forests has mitigated Amazon nations' carbon emissions. <i>Carbon Balance and Management</i> , 2017, 12, 1.	1.4	98
27	Branch xylem density variations across the Amazon Basin. <i>Biogeosciences</i> , 2009, 6, 545-568.	1.3	84
28	Phylogenetic alpha and beta diversity in tropical tree assemblages along regional-scale environmental gradients in northwest South America. <i>Journal of Plant Ecology</i> , 2014, 7, 145-153.	1.2	84
29	Estimating aboveground net biomass change for tropical and subtropical forests: Refinement of IPCC default rates using forest plot data. <i>Global Change Biology</i> , 2019, 25, 3609-3624.	4.2	78
30	Does the disturbance hypothesis explain the biomass increase in basin-wide Amazon forest plot data?. <i>Global Change Biology</i> , 2009, 15, 2418-2430.	4.2	74
31	Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , 2015, 21, 1295-1307.	1.9	72
32	Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , 2021, 260, 108849.	1.9	71
33	Forest biomass density across large climate gradients in northern South America is related to water availability but not with temperature. <i>PLoS ONE</i> , 2017, 12, e0171072.	1.1	67
34	Fast demographic traits promote high diversification rates of Amazonian trees. <i>Ecology Letters</i> , 2014, 17, 527-536.	3.0	63
35	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020, 11, 5515.	5.8	62
36	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , 2020, 29, 1495-1514.	2.7	62

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37	Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. <i>Ecology</i> , 2020, 101, e03052.	1.5	57
38	Soil physical conditions limit palm and tree basal area in Amazonian forests. <i>Plant Ecology and Diversity</i> , 2014, 7, 215-229.	1.0	45
39	Monitoring ecological change during rapid socio-economic and political transitions: Colombian ecosystems in the post-conflict era. <i>Environmental Science and Policy</i> , 2017, 76, 40-49.	2.4	45
40	Evolutionary heritage influences Amazon tree ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161587.	1.2	43
41	Large-Scale Patterns of Turnover and Basal Area Change in Andean Forests. <i>PLoS ONE</i> , 2015, 10, e0126594.	1.1	38
42	Plant dispersal systems in Neotropical forests: availability of dispersal agents or availability of resources for constructing zoochorous fruits?. <i>Global Ecology and Biogeography</i> , 2015, 24, 203-214.	2.7	34
43	Evolutionary diversity is associated with wood productivity in Amazonian forests. <i>Nature Ecology and Evolution</i> , 2019, 3, 1754-1761.	3.4	32
44	A New Genus and Species of Dipterocarpaceae from the Neotropics. I. Introduction, Taxonomy, Ecology, and Distribution. <i>Brittonia</i> , 1995, 47, 225.	0.8	27
45	Live aboveground carbon stocks in natural forests of Colombia. <i>Forest Ecology and Management</i> , 2016, 374, 119-128.	1.4	27
46	Aboveground forest biomass varies across continents, ecological zones and successional stages: refined IPCC default values for tropical and subtropical forests. <i>Environmental Research Letters</i> , 2022, 17, 014047.	2.2	21
47	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	19
48	Water table depth modulates productivity and biomass across Amazonian forests. <i>Global Ecology and Biogeography</i> , 2022, 31, 1571-1588.	2.7	17
49	Edaphic controls on ecosystem-level carbon allocation in two contrasting Amazon forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1820-1830.	1.3	11
50	Strong floristic distinctiveness across Neotropical successional forests. <i>Science Advances</i> , 2022, 8, .	4.7	10
51	Patrones de frecuencia y abundancia de sistemas de dispersión de plantas en bosques colombianos y su relación con las regiones geográficas del país. <i>Colombia Forestal</i> , 2013, 16, 33.	0.5	7
52	Litter decomposition rates across tropical montane and lowland forests are controlled foremost by climate. <i>Biotropica</i> , 2022, 54, 309-326.	0.8	6
53	Composición y diversidad florística de tres bosques húmedos tropicales de edades diferentes, en El Jardín Botánico del Pacífico, municipio de Bahía Solano, Chocó, Colombia. <i>Revista Biodiversidad Neotropical</i> , 2016, 6, 12.	0.2	4
54	STRUCTURE AND DIVERSITY OF THE THREE PLANT ASSOCIATIONS IN THE SAN JUAN RIVER DELTA, CHOCÓ, COLOMBIA. <i>Revista Arvore</i> , 2016, 40, 833-843.	0.5	3

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55	Riqueza total de especies de plantas vasculares en un bosque andino de la Cordillera central de Colombia. Revista De Biología Tropical, 2017, 66, 227.	0.1	2
56	CONTENIDO DE CARBONO EN UN BOSQUE DE TIERRA FIRME DEL RESGUARDO NONUYA-VILLAZUL, AMAZONIA COLOMBIANA. Colombia Forestal, 2017, 20, 144.	0.5	1
57	REPRESENTATIVIDAD A ESCALA REGIONAL DE UN INVENTARIO FLORÍSTICO DETALLADO DE UNA HECTÁREA EN LOS ANDES TROPICALES. Colombia Forestal, 2015, 18, 207.	0.5	0