Esteban Ãlvarez DÃ¡vila

List of Publications by Year
in descending order

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	Litter decomposition rates across tropical montane and lowland forests are controlled foremost by climate. Biotropica, 2022, 54, 309-326.	0.8	6
2	Aboveground forest biomass varies across continents, ecological zones and successional stages: refined IPCC default values for tropical and subtropical forests. Environmental Research Letters, 2022, 17, 014047.	2.2	21
3	Water table depth modulates productivity and biomass across Amazonian forests. Global Ecology and Biogeography, 2022, 31, 1571-1588.	2.7	17
4	Strong floristic distinctiveness across Neotropical successional forests. Science Advances, 2022, 8, .	4.7	10
5	Taking the pulse of Earth's tropical forests using networks of highly distributed plots. Biological Conservation, 2021, 260, 108849.	1.9	71
6	Multidimensional tropical forest recovery. Science, 2021, 374, 1370-1376.	6.0	165
7	Tree mode of death and mortality risk factors across Amazon forests. Nature Communications, 2020, 11, 5515.	5.8	62
8	Long-term thermal sensitivity of Earthâ€™s tropical forests. Science, 2020, 368, 869-874.	6.0	198
9	Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. Ecology, 2020, 101, e03052.	1.5	57
10	The global abundance of tree palms. Global Ecology and Biogeography, 2020, 29, 1495-1514.	2.7	62
11	Estimating aboveground net biomass change for tropical and subtropical forests: Refinement of IPCC default rates using forest plot data. Global Change Biology, 2019, 25, 3609-3624.	4.2	78
12	Evolutionary diversity is associated with wood productivity in Amazonian forests. Nature Ecology and Evolution, 2019, 3, 1754-1761.	3.4	32
13	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. Nature, 2019, 569, 404-408.	13.7	371
14	Biodiversity recovery of Neotropical secondary forests. Science Advances, 2019, 5, eaau3114.	4.7	291
15	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. Frontiers in Earth Science, 2019, 7, .	0.8	19
16	Compositional response of Amazon forests to climate change. Global Change Biology, 2019, 25, 39-56.	4.2	265
17	Global traitâ€“environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917.	3.4	397
18	Seasonal drought limits tree species across the Neotropics. Ecography, 2017, 40, 618-629.	2.1	143

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19	Diversity and carbon storage across the tropical forest biome. Scientific Reports, 2017, 7, 39102.	1.6	251
20	Carbon uptake by mature Amazon forests has mitigated Amazon nationsâ€™ carbon emissions. Carbon Balance and Management, 2017, 12, 1.	1.4	98
21	Monitoring ecological change during rapid socio-economic and political transitions: Colombian ecosystems in the post-conflict era. Environmental Science and Policy, 2017, 76, 40-49.	2.4	45
22	Forest biomass density across large climate gradients in northern South America is related to water availability but not with temperature. PLoS ONE, 2017, 12, e0171072.	1.1	67
23	CONTENIDO DE CARBONO EN UN BOSQUE DE TIERRA FIRME DEL RESGUARDO NONUYA-VILLAZUL, AMAZONIA COLOMBIANA. Colombia Forestal, 2017, 20, 144.	0.5	1
24	Riqueza total de especies de plantas vasculares en un bosque andino de la Cordillera central de Colombia. Revista De Biologia Tropical, 2017, 66, 227.	0.1	2
25	STRUCTURE AND DIVERSITY OF THE THREE PLANT ASSOCIATIONS IN THE SAN JUAN RIVER DELTA, CHOCÃ“, COLOMBIA. Revista Arvore, 2016, 40, 833-843.	0.5	3
26	Evolutionary heritage influences Amazon tree ecology. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161587.	1.2	43
27	Live aboveground carbon stocks in natural forests of Colombia. Forest Ecology and Management, 2016, 374, 119-128.	1.4	27
28	Plant diversity patterns in neotropical dry forests and their conservation implications. Science, 2016, 353, 1383-1387.	6.0	490
29	Variation in stem mortality rates determines patterns of aboveâ€ground biomass in <scp>A</scp>mazonian forests: implications for dynamic global vegetation models. Global Change Biology, 2016, 22, 3996-4013.	4.2	116
30	Amazon forest response to repeated droughts. Global Biogeochemical Cycles, 2016, 30, 964-982.	1.9	201
31	Ecosystem heterogeneity determines the ecological resilience of the Amazon to climate change. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 793-797.	3.3	161
32	ComposiciÃ³n y diversidad florÃstica de tres bosques hÃºmedos tropicales de edades diferentes, en El JardÃn BotÃ¡nico del PacÃfico, municipio de BahÃa Solano, ChocÃ³, Colombia. Revista Biodiversidad Neotropical, 2016, 6, 12.	0.2	4
33	Phylogenetic diversity of Amazonian tree communities. Diversity and Distributions, 2015, 21, 1295-1307.	1.9	72
34	Hyperdominance in Amazonian forest carbon cycling. Nature Communications, 2015, 6, 6857.	5.8	214
35	Long-term decline of the Amazon carbon sink. Nature, 2015, 519, 344-348.	13.7	796
36	Plant dispersal systems in <scp>N</scp>eotropical forests: availability of dispersal agents or availability of resources for constructing zoochorous fruits?. Global Ecology and Biogeography, 2015, 24, 203-214.	2.7	34

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37	Large-Scale Patterns of Turnover and Basal Area Change in Andean Forests. PLoS ONE, 2015, 10, e0126594.	1.1	38
38	REPRESENTATIVIDAD A ESCALA REGIONAL DE UN INVENTARIO FLORÃSTICO DETALLADO DE UNA HECTÃREA EN LOS ANDES TROPICALES. Colombia Forestal, 2015, 18, 207.	0.5	0
39	Markedly divergent estimates of <scp>A</scp>mazon forest carbon density from ground plots and satellites. Global Ecology and Biogeography, 2014, 23, 935-946.	2.7	248
40	Phylogenetic alpha and beta diversity in tropical tree assemblages along regional-scale environmental gradients in northwest South America. Journal of Plant Ecology, 2014, 7, 145-153.	1.2	84
41	Fast demographic traits promote high diversification rates of Amazonian trees. Ecology Letters, 2014, 17, 527-536.	3.0	63
42	Rate of tree carbon accumulation increases continuously with tree size. Nature, 2014, 507, 90-93.	13.7	663
43	Edaphic controls on ecosystem-level carbon allocation in two contrasting Amazon forests. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1820-1830.	1.3	11
44	Soil physical conditions limit palm and tree basal area in Amazonian forests. Plant Ecology and Diversity, 2014, 7, 215-229.	1.0	45
45	Patrones de frecuencia y abundancia de sistemas de dispersiÃ³n de plantas en bosques colombianos y su relaciÃ³n con las regiones geogrÃ¡ficas del paÃs. Colombia Forestal, 2013, 16, 33.	0.5	7
46	Tree above-ground biomass allometries for carbon stocks estimation in the natural forests of Colombia. Forest Ecology and Management, 2012, 267, 297-308.	1.4	182
47	Basin-wide variations in Amazon forest structure and function are mediated by both soils and climate. Biogeosciences, 2012, 9, 2203-2246.	1.3	487
48	Tree height integrated into pantropical forest biomass estimates. Biogeosciences, 2012, 9, 3381-3403.	1.3	373
49	Height-diameter allometry of tropical forest trees. Biogeosciences, 2011, 8, 1081-1106.	1.3	396
50	Droughtâ€“mortality relationships for tropical forests. New Phytologist, 2010, 187, 631-646.	3.5	487
51	Regional and seasonal patterns of litterfall in tropical South America. Biogeosciences, 2010, 7, 43-55.	1.3	250
52	Above- and below-ground net primary productivity across ten Amazonian forests on contrasting soils. Biogeosciences, 2009, 6, 2759-2778.	1.3	221
53	Branch xylem density variations across the Amazon Basin. Biogeosciences, 2009, 6, 545-568.	1.3	84
54	Does the disturbance hypothesis explain the biomass increase in basinâ€wide Amazon forest plot data?. Global Change Biology, 2009, 15, 2418-2430.	4.2	74

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55	Drought Sensitivity of the Amazon Rainforest. Science, 2009, 323, 1344-1347.	6.0	1,443
56	The above-ground coarse wood productivity of 104 Neotropical forest plots. Global Change Biology, 2004, 10, 563-591.	4.2	436
57	A New Genus and Species of Dipterocarpaceae from the Neotropics. I. Introduction, Taxonomy, Ecology, and Distribution. Brittonia, 1995, 47, 225.	0.8	27