# Esteban Ãlvarez DÃ¡vila

List of Publications by Year
in descending order



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|---|---|---|---|
| 57 papers | 10,622 citations | 81900 39 h-index | 138484 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. | 1.6 | 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. | 5.2 | 21 |
| 3 | Water table depth modulates productivity and biomass across Amazonian forests. Global Ecology and Biogeography, 2022, 31, 1571-1588. | 5.8 | 17 |
| 4 | Strong floristic distinctiveness across Neotropical successional forests. Science Advances, 2022, 8, . | 10.3 | 10 |
| 5 | Taking the pulse of Earth's tropical forests using networks of highly distributed plots. Biological Conservation, 2021, 260, 108849. | 4.1 | 71 |
| 6 | Multidimensional tropical forest recovery. Science, 2021, 374, 1370-1376. | 12.6 | 165 |
| 7 | Tree mode of death and mortality risk factors across Amazon forests. Nature Communications, 2020, 11, 5515. | 12.8 | 62 |
| 8 | Long-term thermal sensitivity of Earthâ€™s tropical forests. Science, 2020, 368, 869-874. | 12.6 | 198 |
| 9 | Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. Ecology, 2020, 101, e03052. | 3.2 | 57 |
| 10 | The global abundance of tree palms. Global Ecology and Biogeography, 2020, 29, 1495-1514. | 5.8 | 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. | 9.5 | 78 |
| 12 | Evolutionary diversity is associated with wood productivity in Amazonian forests. Nature Ecology and Evolution, 2019, 3, 1754-1761. | 7.8 | 32 |
| 13 | Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. Nature, 2019, 569, 404-408. | 27.8 | 371 |
| 14 | Biodiversity recovery of Neotropical secondary forests. Science Advances, 2019, 5, eaau3114. | 10.3 | 291 |
| 15 | Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. Frontiers in Earth Science, 2019, 7, . | 1.8 | 19 |
| 16 | Compositional response of Amazon forests to climate change. Global Change Biology, 2019, 25, 39-56. | 9.5 | 265 |
| 17 | Global traitâ€“environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917. | 7.8 | 397 |
| 18 | Seasonal drought limits tree species across the Neotropics. Ecography, 2017, 40, 618-629. | 4.5 | 143 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Diversity and carbon storage across the tropical forest biome. Scientific Reports, 2017, 7, 39102. | 3.3 | 251 |
| 20 | Carbon uptake by mature Amazon forests has mitigated Amazon nationsâ€™ carbon emissions. Carbon Balance and Management, 2017, 12, 1. | 3.2 | 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. | 4.9 | 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. | 2.5 | 67 |
| 23 | CONTENIDO DE CARBONO EN UN BOSQUE DE TIERRA FIRME DEL RESGUARDO NONUYA-VILLAZUL, AMAZONIA COLOMBIANA. Colombia Forestal, 2017, 20, 144. | 0.2 | 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. | 0.4 | 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. | 2.6 | 43 |
| 27 | Live aboveground carbon stocks in natural forests of Colombia. Forest Ecology and Management, 2016, 374, 119-128. | 3.2 | 27 |
| 28 | Plant diversity patterns in neotropical dry forests and their conservation implications. Science, 2016, 353, 1383-1387. | 12.6 | 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. | 9.5 | 116 |
| 30 | Amazon forest response to repeated droughts. Global Biogeochemical Cycles, 2016, 30, 964-982. | 4.9 | 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. | 7.1 | 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. | 4.1 | 72 |
| 34 | Hyperdominance in Amazonian forest carbon cycling. Nature Communications, 2015, 6, 6857. | 12.8 | 214 |
| 35 | Long-term decline of the Amazon carbon sink. Nature, 2015, 519, 344-348. | 27.8 | 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. | 5.8 | 34 |

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|---|---|---|---|
| 37 | Large-Scale Patterns of Turnover and Basal Area Change in Andean Forests. PLoS ONE, 2015, 10, e0126594. | 2.5 | 38 |
| 38 | REPRESENTATIVIDAD A ESCALA REGIONAL DE UN INVENTARIO FLORÃSTICO DETALLADO DE UNA HECTÃREA EN LOS ANDES TROPICALES. Colombia Forestal, 2015, 18, 207. | 0.2 | 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. | 5.8 | 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. | 2.3 | 84 |
| 41 | Fast demographic traits promote high diversification rates of Amazonian trees. Ecology Letters, 2014, 17, 527-536. | 6.4 | 63 |
| 42 | Rate of tree carbon accumulation increases continuously with tree size. Nature, 2014, 507, 90-93. | 27.8 | 663 |
| 43 | Edaphic controls on ecosystem-level carbon allocation in two contrasting Amazon forests. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1820-1830. | 3.0 | 11 |
| 44 | Soil physical conditions limit palm and tree basal area in Amazonian forests. Plant Ecology and Diversity, 2014, 7, 215-229. | 2.4 | 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. | 0.2 | 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. | 3.2 | 182 |
| 47 | Basin-wide variations in Amazon forest structure and function are mediated by both soils and climate. Biogeosciences, 2012, 9, 2203-2246. | 3.3 | 487 |
| 48 | Tree height integrated into pantropical forest biomass estimates. Biogeosciences, 2012, 9, 3381-3403. | 3.3 | 373 |
| 49 | Height-diameter allometry of tropical forest trees. Biogeosciences, 2011, 8, 1081-1106. | 3.3 | 396 |
| 50 | Droughtâ€“mortality relationships for tropical forests. New Phytologist, 2010, 187, 631-646. | 7.3 | 487 |
| 51 | Regional and seasonal patterns of litterfall in tropical South America. Biogeosciences, 2010, 7, 43-55. | 3.3 | 250 |
| 52 | Above- and below-ground net primary productivity across ten Amazonian forests on contrasting soils. Biogeosciences, 2009, 6, 2759-2778. | 3.3 | 221 |
| 53 | Branch xylem density variations across the Amazon Basin. Biogeosciences, 2009, 6, 545-568. | 3.3 | 84 |
| 54 | Does the disturbance hypothesis explain the biomass increase in basinâ€wide Amazon forest plot data?. Global Change Biology, 2009, 15, 2418-2430. | 9.5 | 74 |

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|---|---|---|---|
| 55 | Drought Sensitivity of the Amazon Rainforest. Science, 2009, 323, 1344-1347. | 12.6 | 1,443 |
| 56 | The above-ground coarse wood productivity of 104 Neotropical forest plots. Global Change Biology, 2004, 10, 563-591. | 9.5 | 436 |
| 57 | A New Genus and Species of Dipterocarpaceae from the Neotropics. I. Introduction, Taxonomy, Ecology, and Distribution. Brittonia, 1995, 47, 225. | 0.2 | 27 |