

# Emilio Vilanova

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42  
papers

5,538  
citations

25  
h-index

46  
g-index

46  
ext. papers

6,637  
ext. citations

9.9  
avg, IF

3.39  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 42 | The number of tree species on Earth.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,   | 11.5 | 6         |
| 41 | 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> , <b>2022</b> , 17, 014047 | 6.2  | 5         |
| 40 | A Low-Cost and Robust Landsat-Based Approach to Study Forest Degradation and Carbon Emissions from Selective Logging in the Venezuelan Amazon. <i>Remote Sensing</i> , <b>2021</b> , 13, 1435                                     | 5    | 2         |
| 39 | Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 757-767  | 12.3 | 5         |
| 38 | Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , <b>2020</b> , 368, 869-874  | 33.3 | 92        |
| 37 | Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , <b>2020</b> , 10, 10130   | 4.9  | 24        |
| 36 | Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. <i>Ecology</i> , <b>2020</b> , 101, e03052   | 4.6  | 24        |
| 35 | The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , <b>2020</b> , 29, 1495-1514  | 6.1  | 21        |
| 34 | Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , <b>2020</b> , 11, 5515  | 17.4 | 24        |
| 33 | Rarity of monodominance in hyperdiverse Amazonian forests. <i>Scientific Reports</i> , <b>2019</b> , 9, 13822   | 4.9  | 19        |
| 32 | Estimating aboveground net biomass change for tropical and subtropical forests: Refinement of IPCC default rates using forest plot data. <i>Global Change Biology</i> , <b>2019</b> , 25, 3609-3624                               | 11.4 | 44        |
| 31 | Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , <b>2019</b> , 25, 39-56  | 11.4 | 158       |
| 30 | Species Distribution Modelling: Contrasting presence-only models with plot abundance data. <i>Scientific Reports</i> , <b>2018</b> , 8, 1003  | 4.9  | 78        |
| 29 | Field methods for sampling tree height for tropical forest biomass estimation. <i>Methods in Ecology and Evolution</i> , <b>2018</b> , 9, 1179-1189   | 7.7  | 53        |
| 28 | Environmental drivers of forest structure and stem turnover across Venezuelan tropical forests. <i>PLoS ONE</i> , <b>2018</b> , 13, e0198489  | 3.7  | 16        |
| 27 | Seasonal drought limits tree species across the Neotropics. <i>Ecography</i> , <b>2017</b> , 40, 618-629  | 6.5  | 93        |
| 26 | Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , <b>2017</b> , 7, 39102   | 4.9  | 177       |

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|----|---|------|-----|
| 25 | Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. <i>Science</i> , <b>2017</b> , 355, 925-931  | 33.3 | 280 |
| 24 | Does soil pyrogenic carbon determine plant functional traits in Amazon Basin forests?. <i>Plant Ecology</i> , <b>2017</b> , 218, 1047-1062  | 1.7  | 2   |
| 23 | Carbon Emissions from Deforestation and Degradation in a Forest Reserve in Venezuela between 1990 and 2015. <i>Forests</i> , <b>2017</b> , 8, 291   | 2.8  | 8   |
| 22 | 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> , <b>2016</b> , 22, 3996-4013 | 11.4 | 99  |
| 21 | Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , <b>2016</b> , 30, 964-982  | 5.9  | 149 |
| 20 | Evolutionary heritage influences Amazon tree ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,   | 4.4  | 29  |
| 19 | Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , <b>2015</b> , 6, 6857   | 17.4 | 157 |
| 18 | Long-term decline of the Amazon carbon sink. <i>Nature</i> , <b>2015</b> , 519, 344-8   | 50.4 | 583 |
| 17 | Estimating the global conservation status of more than 15,000 Amazonian tree species. <i>Science Advances</i> , <b>2015</b> , 1, e1500936   | 14.3 | 91  |
| 16 | Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , <b>2015</b> , 21, 1295-1307  | 5    | 56  |
| 15 | Fast demographic traits promote high diversification rates of Amazonian trees. <i>Ecology Letters</i> , <b>2014</b> , 17, 527-36  | 10   | 48  |
| 14 | Soil physical conditions limit palm and tree basal area in Amazonian forests. <i>Plant Ecology and Diversity</i> , <b>2014</b> , 7, 215-229   | 2.2  | 35  |
| 13 | Markedly divergent estimates of Amazon forest carbon density from ground plots and satellites. <i>Global Ecology and Biogeography</i> , <b>2014</b> , 23, 935-946   | 6.1  | 205 |
| 12 | Analysing Amazonian forest productivity using a new individual and trait-based model (TFS v.1). <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 1251-1269   | 6.3  | 72  |
| 11 | Large trees drive forest aboveground biomass variation in moist lowland forests across the tropics. <i>Global Ecology and Biogeography</i> , <b>2013</b> , 22, 1261-1271  | 6.1  | 280 |
| 10 | Hyperdominance in the Amazonian tree flora. <i>Science</i> , <b>2013</b> , 342, 1243092   | 33.3 | 637 |
| 9  | Assessing the extent of "conflict of use" in multipurpose tropical forest trees: a regional view. <i>Journal of Environmental Management</i> , <b>2013</b> , 130, 40-7  | 7.9  | 20  |
| 8  | Compliance with sustainable forest management guidelines in three timber concessions in the Venezuelan Guayana: Analysis and implications. <i>Forest Policy and Economics</i> , <b>2012</b> , 17, 3-12            | 3.6  | 4   |

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|---|---|------|------|
| 7 | Socioeconomic and Environmental Basis for the Development of Small Scale Forestry in a Highly Degraded Watershed in the Venezuelan Andes. <i>Small-Scale Forestry</i> , <b>2012</b> , 11, 321-337 | 1.2  | 2    |
| 6 | Tree height integrated into pantropical forest biomass estimates. <i>Biogeosciences</i> , <b>2012</b> , 9, 3381-3403  | 4.6  | 289  |
| 5 | Drought-mortality relationships for tropical forests. <i>New Phytologist</i> , <b>2010</b> , 187, 631-46  | 9.8  | 400  |
| 4 | Planning and Policy Issues in Small-scale Forestry Development in Southern Aragua State, Venezuela. <i>Small-Scale Forestry</i> , <b>2010</b> , 9, 281-295  | 1.2  | 1    |
| 3 | Guiding Principles for Small-Scale Forestry in a Watershed of the Venezuelan Andes: Constraints and Opportunities. <i>Small-Scale Forestry</i> , <b>2009</b> , 8, 77-93                           | 1.2  | 3    |
| 2 | Drought sensitivity of the Amazon rainforest. <i>Science</i> , <b>2009</b> , 323, 1344-7  | 33.3 | 1213 |
| 1 | Models of natural and human dynamics in forest landscapes: Cross-site and cross-cultural synthesis. <i>Geoforum</i> , <b>2008</b> , 39, 846-866   | 2.9  | 34   |