

Flavia R C Costa

List of Publications by Citations

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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.

88

papers

4,178

citations

31

h-index

63

g-index

92

ext. papers

5,250

ext. citations

6.6

avg, IF

5.1

L-index

#	Paper	IF	Citations
88	Hyperdominance in the Amazonian tree flora. <i>Science</i> , 2013 , 342, 1243092	33.3	637
87	Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. <i>Science</i> , 2017 , 355, 925-931	33.3	280
86	RAPELD: a modification of the Gentry method for biodiversity surveys in long-term ecological research sites. <i>Biota Neotropica</i> , 2005 , 5, 19-24		256
85	Diversity enhances carbon storage in tropical forests. <i>Global Ecology and Biogeography</i> , 2015 , 24, 1314-1328		245
84	Markedly divergent estimates of Amazon forest carbon density from ground plots and satellites. <i>Global Ecology and Biogeography</i> , 2014 , 23, 935-946	6.1	205
83	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , 2015 , 6, 6857	17.4	157
82	Amazon forest carbon dynamics predicted by profiles of canopy leaf area and light environment. <i>Ecology Letters</i> , 2012 , 15, 1406-14	10	132
81	Mesoscale distribution patterns of Amazonian understorey herbs in relation to topography, soil and watersheds. <i>Journal of Ecology</i> , 2005 , 93, 863-878	6	132
80	How People Domesticated Amazonian Forests. <i>Frontiers in Ecology and Evolution</i> , 2018 , 5,	3.7	100
79	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020 , 368, 869-874	33.3	92
78	Estimating the global conservation status of more than 15,000 Amazonian tree species. <i>Science Advances</i> , 2015 , 1, e1500936	14.3	91
77	Amazonian rainforest tree mortality driven by climate and functional traits. <i>Nature Climate Change</i> , 2019 , 9, 384-388	21.4	84
76	Gradients within gradients: The mesoscale distribution patterns of palms in a central Amazonian forest. <i>Journal of Vegetation Science</i> , 2009 , 20, 69-78	3.1	84
75	Climate seasonality limits leaf carbon assimilation and wood productivity in tropical forests. <i>Biogeosciences</i> , 2016 , 13, 2537-2562	4.6	79
74	Species Distribution Modelling: Contrasting presence-only models with plot abundance data. <i>Scientific Reports</i> , 2018 , 8, 1003	4.9	78
73	Vertical distance from drainage drives floristic composition changes in an Amazonian rainforest. <i>Plant Ecology and Diversity</i> , 2014 , 7, 241-253	2.2	77
72	Historical human footprint on modern tree species composition in the Purus-Madeira interfluve, central Amazonia. <i>PLoS ONE</i> , 2012 , 7, e48559	3.7	72

71	The spatial distribution of illegal logging in the Anavilhanas archipelago (Central Amazonia) and logging impacts on species. <i>Environmental Conservation</i> , 2012 , 39, 111-121	3.3	69
70	Embolism resistance drives the distribution of Amazonian rainforest tree species along hydro-topographic gradients. <i>New Phytologist</i> , 2019 , 221, 1457-1465	9.8	62
69	How far can we go in simplifying biomonitoring assessments? An integrated analysis of taxonomic surrogacy, taxonomic sufficiency and numerical resolution in a megadiverse region. <i>Ecological Indicators</i> , 2012 , 23, 366-373	5.8	61
68	Can traits predict individual growth performance? A test in a hyperdiverse tropical forest. <i>New Phytologist</i> , 2018 , 219, 109-121	9.8	57
67	The Need for Large-Scale, Integrated Studies of Biodiversity - the Experience of the Program for Biodiversity Research in Brazilian Amazonia. <i>Natureza A Conservacao</i> , 2010 , 08, 3-12		55
66	How wide is the riparian zone of small streams in tropical forests? A test with terrestrial herbs. <i>Journal of Tropical Ecology</i> , 2008 , 24, 65-74	1.3	53
65	Beyond climate control on species range: The importance of soil data to predict distribution of Amazonian plant species. <i>Journal of Biogeography</i> , 2018 , 45, 190-200	4.1	51
64	The importance of hydraulic architecture to the distribution patterns of trees in a central Amazonian forest. <i>New Phytologist</i> , 2017 , 215, 113-125	9.8	48
63	SELECTIVE LOGGING EFFECTS ON ABUNDANCE, DIVERSITY, AND COMPOSITION OF TROPICAL UNDERSTORY HERBS 2002 , 12, 807-819		44
62	Predicting environmental gradients with fern species composition in Brazilian Amazonia. <i>Journal of Vegetation Science</i> , 2014 , 25, 1195-1207	3.1	40
61	Soil physical conditions limit palm and tree basal area in Amazonian forests. <i>Plant Ecology and Diversity</i> , 2014 , 7, 215-229	2.2	35
60	Effects of Selective Logging on the Diversity and Abundance of Flowering and Fruiting Understory Plants in a Central Amazonian Forest. <i>Biotropica</i> , 2003 , 35, 103-114	2.3	35
59	Broad Scale Distribution of Ferns and Lycophytes along Environmental Gradients in Central and Northern Amazonia, Brazil. <i>Biotropica</i> , 2012 , 44, 752-762	2.3	34
58	Mesoscale Gradients of Herb Richness and Abundance in Central Amazonia ¹ . <i>Biotropica</i> , 2006 , 38, 711-717		33
57	Near Infrared Spectroscopy Facilitates Rapid Identification of Both Young and Mature Amazonian Tree Species. <i>PLoS ONE</i> , 2015 , 10, e0134521	3.7	31
56	Biogeographical patterns of liana abundance and diversity 2014 , 131-146		30
55	Discrimination of taxonomic identity at species, genus and family levels using Fourier Transformed Near-Infrared Spectroscopy (FT-NIR). <i>Forest Ecology and Management</i> , 2017 , 406, 219-227	3.9	27
54	Effects of Selective Logging on the Diversity and Abundance of Flowering and Fruiting Understory Plants in a Central Amazonian Forest ¹ . <i>Biotropica</i> , 2003 , 35, 103	2.3	27

53	Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , 2020 , 10, 10130	4.9	24
52	Spatial Scale or Amplitude of Predictors as Determinants of the Relative Importance of Environmental Factors to Plant Community Structure. <i>Biotropica</i> , 2013 , 45, 299-307	2.3	24
51	Dispersal of Amazonian Trees: Hydrochory in <i>Swartzia polyphylla</i> 1. <i>Biotropica</i> , 1999 , 31, 460-465	2.3	23
50	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1495-1514	6.1	21
49	Validating forest types based on geological and land-form features in central Amazonia. <i>Journal of Vegetation Science</i> , 2014 , 25, 198-212	3.1	21
48	Assessing the relationship between forest types and canopy tree beta diversity in Amazonia. <i>Ecography</i> , 2010 , 33, 738-747	6.5	21
47	Distribution of pteridophyte communities along environmental gradients in Central Amazonia, Brazil. <i>Biodiversity and Conservation</i> , 2009 , 18, 151-166	3.4	20
46	Forest structure along a 600 km transect of natural disturbances and seasonality gradients in central-southern Amazonia. <i>Journal of Ecology</i> , 2016 , 104, 1335-1346	6	20
45	Rarity of monodominance in hyperdiverse Amazonian forests. <i>Scientific Reports</i> , 2019 , 9, 13822	4.9	19
44	The importance of soils in predicting the future of plant habitat suitability in a tropical forest. <i>Plant and Soil</i> , 2020 , 450, 151-170	4.2	19
43	The effect of forest fragmentation on the soil seed bank of Central Amazonia. <i>Forest Ecology and Management</i> , 2017 , 393, 105-112	3.9	18
42	Synthesis of the first 10 years of long-term ecological research in Amazonian Forest ecosystem □ implications for conservation and management. <i>Natureza A Conservacao</i> , 2015 , 13, 3-14		18
41	Historical landscape domestication in ancestral forests with nutrient-poor soils in northwestern Amazonia. <i>Forest Ecology and Management</i> , 2019 , 446, 317-330	3.9	17
40	Liana Abundance Patterns: The Role of Ecological Filters during Development. <i>Biotropica</i> , 2011 , 43, 442-449		17
39	Local Hydrological Conditions Explain Floristic Composition in Lowland Amazonian Forests. <i>Biotropica</i> , 2014 , 46, 395-403	2.3	16
38	Temporary Pond Availability and Tadpole Species Composition in Central Amazonia. <i>Herpetologica</i> , 2010 , 66, 124-130	1.9	16
37	Phylogenetic analysis of <i>Attalea</i> (Arecaceae): insights into the historical biogeography of a recently diversified Neotropical plant group. <i>Botanical Journal of the Linnean Society</i> , 2016 , 182, 287-302	2.2	16
36	The other side of droughts: wet extremes and topography as buffers of negative drought effects in an Amazonian forest. <i>New Phytologist</i> , 2021 , 229, 1995-2006	9.8	15

35	Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , 2021 , 260, 108849	6.2	15
34	Response to Comment on "Persistent effects of pre-Columbian plant domestication on Amazonian forest composition". <i>Science</i> , 2017 , 358,	33.3	13
33	Palms and trees resist extreme drought in Amazon forests with shallow water tables. <i>Journal of Ecology</i> , 2020 , 108, 2070-2082	6	13
32	Effects of Selective Logging on Populations of Two Tropical Understory Herbs in an Amazonian Forest1. <i>Biotropica</i> , 2002 , 34, 289-296	2.3	13
31	Dispersal of Amazonian Trees: Hydrochory in <i>Pentaclethra macroloba</i> 1. <i>Biotropica</i> , 2000 , 32, 548	2.3	13
30	Long-term effect of selective logging on floristic composition: A 25 year experiment in the Brazilian Amazon. <i>Forest Ecology and Management</i> , 2019 , 440, 258-266	3.9	12
29	The role of environmental filtering, geographic distance and dispersal barriers in shaping the turnover of plant and animal species in Amazonia. <i>Biodiversity and Conservation</i> , 2020 , 29, 3609-3634	3.4	12
28	Alternative functional trajectories along succession after different land uses in central Amazonia. <i>Journal of Applied Ecology</i> , 2019 , 56, 2472-2481	5.8	11
27	Dispersal of Amazonian Trees: Hydrochory in <i>Pentaclethra macroloba</i> 1. <i>Biotropica</i> , 2000 , 32, 548-552	2.3	11
26	Making the most of scarce data: Mapping soil gradients in data-poor areas using species occurrence records. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 788-801	7.7	10
25	A Program for Monitoring Biological Diversity in the Amazon: An Alternative Perspective to Threat-based Monitoring. <i>Biotropica</i> , 2008 , 40, 409-411	2.3	10
24	Interaction between extreme weather events and mega-dams increases tree mortality and alters functional status of Amazonian forests. <i>Journal of Applied Ecology</i> , 2019 , 56, 2641-2651	5.8	8
23	Pre-Columbian soil fertilization and current management maintain food resource availability in old-growth Amazonian forests. <i>Plant and Soil</i> , 2020 , 450, 29-48	4.2	8
22	EFFECTS OF CLIMATE CHANGE ON CENTRAL AMAZONIAN FORESTS: A TWO DECADES SYNTHESIS OF MONITORING TROPICAL BIODIVERSITY 2020 , 24, 317-335		8
21	Near-infrared spectrometry allows fast and extensive predictions of functional traits from dry leaves and branches 2018 , 28, 1157-1167		8
20	Palm distribution patterns in the southwestern Brazilian Amazon: Impact of a large hydroelectric dam. <i>Forest Ecology and Management</i> , 2020 , 463, 118032	3.9	7
19	Litter as a filter of emergence for herbaceous seedlings and sporophytes in central Amazonia. <i>Journal of Tropical Ecology</i> , 2012 , 28, 445-452	1.3	7
18	Quantifying Tropical Plant Diversity Requires an Integrated Technological Approach. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 1100-1109	10.9	7

17	Forest conservation: HumansThandprints. <i>Science</i> , 2017 , 355, 466-467	33.3	6
16	Local dynamic variation of lianas along topography maintains unchanging abundance at the landscape scale in central Amazonia. <i>Journal of Vegetation Science</i> , 2018 , 29, 651-661	3.1	5
15	Multi-taxa Surveys: Integrating Ecosystem Processes and User Demands 2014 , 177-187		5
14	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , 2021 , 5, 757-767	12.3	5
13	Busy Nights: High Seed Dispersal by Crickets in a Neotropical Forest. <i>American Naturalist</i> , 2016 , 188, E126-E133	3.7	5
12	Local hydrological gradients structure high intra-species variability in plant hydraulic traits in two dominant central Amazonian tree species. <i>Journal of Experimental Botany</i> , 2021 ,	7	4
11	Phylogenetic structure of a palm community in the central Amazon: changes along a hydro-edaphic gradient. <i>Plant Ecology</i> , 2014 , 215, 1173-1185	1.7	3
10	Plant ontogeny, spatial distance, and soil type influence patterns of relatedness in a common Amazonian tree. <i>PLoS ONE</i> , 2013 , 8, e62639	3.7	3
9	Environmental variables and Piper assemblage composition: a mesoscale study in the Madeira-Purus interfluve, Central Amazonia. <i>Biota Neotropica</i> , 2011 , 11, 83-91		3
8	The other side of tropical forest drought: do shallow water table regions of Amazonia act as large-scale hydrological refugia from drought?. <i>New Phytologist</i> , 2022 ,	9.8	3
7	Biologia reprodutiva de <i>Psychotria spectabilis</i> Steyrm. e <i>Palicourea</i> cf. <i>virens</i> (Poepp & Endl.) Standl. (Rubiaceae) em uma floresta tropical hida na regiõ de Manaus, AM, Brasil. <i>Acta Botanica Brasílica</i> , 2008 , 22, 275-285	1	3
6	Understory host plant and insect gall diversity changes across topographic habitats differing in nutrient and water stress in the Brazilian Amazon rainforest. <i>Acta Amazonica</i> , 2017 , 47, 237-246	0.8	2
5	Restriction limits and main drivers of fruit production in palm in central Amazonia. <i>Acta Oecologica</i> , 2016 , 77, 75-84	1.7	2
4	Mapping hydrological environments in central Amazonia: ground validation and surface model based on SRTM DEM data corrected for deforestation. <i>Earth System Science Data</i> , 2015 , 7, 29-34	10.5	2
3	Sustainable Use of <i>Calathea lutea</i> in Handicrafts: A Case Study from the Amanã Sustainable Development Reserve in the Brazilian Amazon. <i>Economic Botany</i> , 2013 , 67, 30-40	1.7	1
2	Temporal changes in rainfall affect taxonomic and functional composition of stream fish assemblages in central Amazonia. <i>Freshwater Biology</i> , 2021 , 66, 753-764	3.1	1
1	Intraspecific Variation on Palm Leaf Traits of Co-occurring SpeciesDoes Local Hydrology Play a Role?. <i>Frontiers in Forests and Global Change</i> , 2021 , 4,	3.7	1