Daniel Piotto

List of Publications by Year
in descending order

45 papers	5,020 citations	331670 21 h-index	276875 41 g-index
48 all docs	48 docs citations	48 times ranked	8077 citing authors

#	Article	IF	Citations
1	Positive biodiversity-productivity relationship predominant in global forests. Science, 2016, 354, .	12.6	864
2	Biomass resilience of Neotropical secondary forests. Nature, 2016, 530, 211-214.	27.8	763
3	Mapping tree density at a global scale. Nature, 2015, 525, 201-205.	27.8	642
4	Carbon sequestration potential of second-growth forest regeneration in the Latin American tropics. Science Advances, 2016, 2, e1501639.	10.3	423
5	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. Nature, 2019, 569, 404-408.	27.8	371
6	Biodiversity recovery of Neotropical secondary forests. Science Advances, 2019, 5, eaau3114.	10.3	291
7	A meta-analysis comparing tree growth in monocultures and mixed plantations. Forest Ecology and Management, 2008, 255, 781-786.	3.2	237
8	Multidimensional tropical forest recovery. Science, 2021, 374, 1370-1376.	12.6	165
9	Pure and mixed forest plantations with native species of the dry tropics of Costa Rica: a comparison of growth and productivity. Forest Ecology and Management, 2004, 190, 359-372.	3.2	137
10	Globally, functional traits are weak predictors of juvenile tree growth, and we do not know why. Journal of Ecology, 2015, 103, 978-989.	4.0	131
11	Wet and dry tropical forests show opposite successional pathways in wood density but converge over time. Nature Ecology and Evolution, 2019, 3, 928-934.	7.8	120
12	Legume abundance along successional and rainfall gradients in Neotropical forests. Nature Ecology and Evolution, 2018, 2, 1104-1111.	7.8	107
13	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. Nature Ecology and Evolution, 2017, 1, 1639-1642.	7.8	95
14	The number of tree species on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	86
15	Forest recovery after swidden cultivation across a 40-year chronosequence in the Atlantic forest of southern Bahia, Brazil. Plant Ecology, 2009, 205, 261-272.	1.6	79
16	Performance of forest plantations in small and medium-sized farms in the Atlantic lowlands of Costa Rica. Forest Ecology and Management, 2003, 175, 195-204.	3.2	75
17	Silvicultural and economic aspects of pure and mixed native tree species plantations on degraded pasturelands in humid Costa Rica. New Forests, 2010, 39, 369-385.	1.7	66
18	Growth and effects of thinning of mixed and pure plantations with native trees in humid tropical Costa Rica. Forest Ecology and Management, 2003, 177, 427-439.	3.2	51

#	ARTICLE	IF	CITATIONS
19	Recent deforestation drove the spike in Amazonian fires. Environmental Research Letters, 2020, 15, 121003.	5.2	46
20	Guidelines for documenting and reporting tree allometric equations. Annals of Forest Science, 2015, 72, 763-768.	2.0	43
21	Nitrogen cycling during secondary succession in Atlantic Forest of Bahia, Brazil. Scientific Reports, 2018, 8, 1377.	3.3	34
22	Landscape‐scale lidar analysis of aboveground biomass distribution in secondary Brazilian Atlantic Forest. Biotropica, 2018, 50, 520-530.	1.6	20
23	Recommendations for the use of tree models to estimate national forest biomass and assess their uncertainty. Annals of Forest Science, 2015, 72, 769-777.	2.0	18
24	Successional, spatial, and seasonal changes in seed rain in the Atlantic forest of southern Bahia, Brazil. PLoS ONE, 2019, 14, e0226474.	2.5	18
25	An overview of existing and promising technologies for national forest monitoring. Annals of Forest Science, 2015, 72, 779-788.	2.0	17
26	Forest Plantations in Costa Rica and Nicaragua. Journal of Sustainable Forestry, 2004, 18, 59-77.	1.4	16
27	Timber stock recovery in a chronosequence of secondary forests in Southern Brazil: Adding value to restored landscapes. Forest Ecology and Management, 2021, 495, 119352.	3.2	13
28	Regression models for estimating leaf area of seedlings and adult individuals of Neotropical rainforest tree species. Brazilian Journal of Biology, 2016, 76, 983-989.	0.9	12
29	A New Framework for Evaluating Estimates of Symbiotic Nitrogen Fixation in Forests. American Naturalist, 2018, 192, 618-629.	2.1	12
30	Integrative research identifies 71 new plant species records in the state of Rio Grande do Norte (Brazil) and enhances a small herbarium collection during a funding shortage. PhytoKeys, 2017, 86, 43-74.	1.0	11
31	Recovering ecosystem functions through the management of regenerating community in agroforestry and plantations with Khaya spp. in the Atlantic Forest, Brazil. Forest Ecology and Management, 2021, 482, 118854.	3.2	10
32	Drought and soil nutrients effects on symbiotic nitrogen fixation in seedlings from eight Neotropical legume species. Biotropica, 2021, 53, 703-713.	1.6	10
33	Strong floristic distinctiveness across Neotropical successional forests. Science Advances, 2022, 8, .	10.3	10
34	Mixed Plantations of Native Trees on Abandoned Pastures: Restoring Productivity, Ecosystem Properties, and Services on a Humid Tropical Site. Tropical Forestry, 2011, , 501-511.	1.0	6
35	Overcoming obstacles to sharing data on tree allometric equations. Annals of Forest Science, 2015, 72, 789-794.	2.0	4
36	Restoration plantings of non-pioneer tree species in open fields, young secondary forests, and rubber plantations in Bahia, Brazil. Forest Ecology and Management, 2020, 474, 118389.	3.2	4

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37	Broad-scale and long-term forest growth predictions and management for native, mixed species plantations and teak in Costa Rica and Panama. Forest Ecology and Management, 2022, 520, 120386.	3.2	4
38	PALMS AS SOURCE OF NON-TIMBER FOREST PRODUCTS IN THE SOUTHERN BAHIA COAST, BRAZIL. AgrotrÃ³pica (Itabuna), 2017, 29, 183-194.	0.1	3
39	Nearby mature forest distance and regenerating forest age influence tree species composition in the Atlantic forest of Southern Bahia, Brazil. Biodiversity and Conservation, 2021, 30, 2165-2180.	2.6	2
40	Litter production in successional forests of southern Bahia, Brazil. Journal of Tropical Ecology, 2022, 38, 377-385.	1.1	1
41	Exploring coarse- to fine-scale approaches for mapping and estimating forest volume from Brazilian National Forest Inventory data. Forestry, 2019, 92, 577-590.	2.3	0
42	Title is missing!. , 2019, 14, e0226474.		0
43	Title is missing!. , 2019, 14, e0226474.		0
44	Title is missing!. , 2019, 14, e0226474.		0
45	Title is missing!. , 2019, 14, e0226474.		0