

Roel J Brienen

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.

84
papers

6,747
citations

43
h-index

82
g-index

90
ext. papers

8,299
ext. citations

9.1
avg, IF

5.26
L-index

#	Paper	IF	Citations
84	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> , 2022 , 17, 014047	6.2	5
83	Photosynthesis in action: The global view 2022 , 243-269		
82	Relationships between species richness and ecosystem services in Amazonian forests strongly influenced by biogeographical strata and forest types.. <i>Scientific Reports</i> , 2022 , 12, 5960	4.9	0
81	Paired analysis of tree ring width and carbon isotopes indicate when controls on tropical tree growth change from light to water limitations. <i>Tree Physiology</i> , 2021 ,	4.2	1
80	How Robust Is the Apparent Break-Down of Northern High-Latitude Temperature Control on Spring Carbon Uptake?. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091601	4.9	0
79	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , 2021 , 5, 757-767	12.3	5
78	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO. <i>New Phytologist</i> , 2021 , 229, 2413-2445	9.8	94
77	Expanding tropical forest monitoring into Dry Forests: The DRYFLOR protocol for permanent plots. <i>Plants People Planet</i> , 2021 , 3, 295-300	4.1	9
76	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020 , 368, 869-874	33.3	92
75	Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , 2020 , 10, 10130	4.9	24
74	Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. <i>Ecology</i> , 2020 , 101, e03052	4.6	24
73	Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020 , 579, 80-87	50.4	202
72	Intra-annual oxygen isotopes in the tree rings record precipitation extremes and water reservoir levels in the Metropolitan Area of São Paulo, Brazil. <i>Science of the Total Environment</i> , 2020 , 743, 140798	10.2	3
71	Global tree-ring analysis reveals rapid decrease in tropical tree longevity with temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 33358-33364	11.5	14
70	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020 , 11, 5515	17.4	24
69	Forest carbon sink neutralized by pervasive growth-lifespan trade-offs. <i>Nature Communications</i> , 2020 , 11, 4241	17.4	43
68	Rarity of monodominance in hyperdiverse Amazonian forests. <i>Scientific Reports</i> , 2019 , 9, 13822	4.9	19

67	Dominant tree species drive beta diversity patterns in western Amazonia. <i>Ecology</i> , 2019 , 100, e02636	4.6	13
66	Large apparent growth increases in boreal forests inferred from tree-rings are an artefact of sampling biases. <i>Scientific Reports</i> , 2019 , 9, 6832	4.9	24
65	Contrasting controls on tree ring isotope variation for Amazon floodplain and terra firme trees. <i>Tree Physiology</i> , 2019 , 39, 845-860	4.2	12
64	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	12
63	Estimating aboveground net biomass change for tropical and subtropical forests: Refinement of IPCC default rates using forest plot data. <i>Global Change Biology</i> , 2019 , 25, 3609-3624	11.4	44
62	Can We Detect Changes in Amazon Forest Structure Using Measurements of the Isotopic Composition of Precipitation?. <i>Geophysical Research Letters</i> , 2019 , 46, 14807-14816	4.9	5
61	The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. <i>Scientific Data</i> , 2019 , 6, 198	8.2	29
60	Evolutionary diversity is associated with wood productivity in Amazonian forests. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1754-1761	12.3	17
59	Imaging spectroscopy predicts variable distance decay across contrasting Amazonian tree communities. <i>Journal of Ecology</i> , 2019 , 107, 696-710	6	17
58	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019 , 25, 39-56	11.4	158
57	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018 , 219, 851-869	9.8	209
56	Species Distribution Modelling: Contrasting presence-only models with plot abundance data. <i>Scientific Reports</i> , 2018 , 8, 1003	4.9	78
55	Field methods for sampling tree height for tropical forest biomass estimation. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 1179-1189	7.7	53
54	Questioning the Influence of Sunspots on Amazon Hydrology: Even a Broken Clock Tells the Right Time Twice a Day. <i>Geophysical Research Letters</i> , 2018 , 45, 1419-1422	4.9	6
53	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018 , 27, 1366-1383	6.1	52
52	Recent intensification of Amazon flooding extremes driven by strengthened Walker circulation. <i>Science Advances</i> , 2018 , 4, eaat8785	14.3	126
51	Seasonal drought limits tree species across the Neotropics. <i>Ecography</i> , 2017 , 40, 618-629	6.5	93
50	Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , 2017 , 7, 39102	4.9	177

49	Carbon uptake by mature Amazon forests has mitigated Amazon nations carbon emissions. <i>Carbon Balance and Management</i> , 2017 , 12, 1	3.6	56
48	Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. <i>Science</i> , 2017 , 355, 925-931	33.3	280
47	A response to trends in tropical tree growth: reanalysis confirms earlier findings. <i>Global Change Biology</i> , 2017 , 23, e5-e6	11.4	
46	Economically important species dominate aboveground carbon storage in forests of southwestern Amazonia. <i>Ecology and Society</i> , 2017 , 22,	4.1	6
45	Tree height strongly affects estimates of water-use efficiency responses to climate and CO using isotopes. <i>Nature Communications</i> , 2017 , 8, 288	17.4	72
44	Does soil pyrogenic carbon determine plant functional traits in Amazon Basin forests?. <i>Plant Ecology</i> , 2017 , 218, 1047-1062	1.7	2
43	Does always form annual rings? Testing ring periodicity across South America using radiocarbon dating. <i>Trees - Structure and Function</i> , 2017 , 31, 1999-2009	2.6	28
42	Tree demography dominates long-term growth trends inferred from tree rings. <i>Global Change Biology</i> , 2017 , 23, 474-484	11.4	39
41	Current Brazilian forest management guidelines are unsustainable for <i>Swietenia</i> , <i>Cedrela</i> , <i>Amburana</i> , and <i>Copaifera</i> : A response to da Cunha and colleagues. <i>Forest Ecology and Management</i> , 2017 , 386, 81-83	3.9	8
40	What drives interannual variation in tree ring oxygen isotopes in the Amazon?. <i>Geophysical Research Letters</i> , 2016 , 43, 11,831	4.9	21
39	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> , 2016 , 22, 3996-4013	11.4	99
38	Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 964-982	5.9	149
37	Tree Rings in the Tropics: Insights into the Ecology and Climate Sensitivity of Tropical Trees. <i>Tree Physiology</i> , 2016 , 439-461		87
36	Ecosystem heterogeneity determines the ecological resilience of the Amazon to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 793-7	11.5	127
35	Evolutionary heritage influences Amazon tree ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	29
34	Low Phylogenetic Beta Diversity and Geographic Neo-endemism in Amazonian White-sand Forests. <i>Biotropica</i> , 2016 , 48, 34-46	2.3	36
33	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , 2015 , 6, 6857	17.4	157
32	Long-term decline of the Amazon carbon sink. <i>Nature</i> , 2015 , 519, 344-8	50.4	583

31	Estimating the global conservation status of more than 15,000 Amazonian tree species. <i>Science Advances</i> , 2015 , 1, e1500936	14.3	91
30	Oxygen isotopes in tree rings show good coherence between species and sites in Bolivia. <i>Global and Planetary Change</i> , 2015 , 133, 298-308	4.2	38
29	Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , 2015 , 21, 1295-1307	5	56
28	Recent Amazon climate as background for possible ongoing and future changes of Amazon humid forests. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1384-1399	5.9	72
27	Fast demographic traits promote high diversification rates of Amazonian trees. <i>Ecology Letters</i> , 2014 , 17, 527-36	10	48
26	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
25	Size and frequency of natural forest disturbances and the Amazon forest carbon balance. <i>Nature Communications</i> , 2014 , 5, 3434	17.4	128
24	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
23	Hyperdominance in the Amazonian tree flora. <i>Science</i> , 2013 , 342, 1243092	33.3	637
22	Detecting trends in tree growth: not so simple. <i>Trends in Plant Science</i> , 2013 , 18, 11-7	13.1	171
21	Intensification of the Amazon hydrological cycle over the last two decades. <i>Geophysical Research Letters</i> , 2013 , 40, 1729-1733	4.9	233
20	Oxygen isotopes in tree rings record variation in precipitation O and amount effects in the south of Mexico. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1604-1615	3.7	27
19	What controls tropical forest architecture? Testing environmental, structural and floristic drivers. <i>Global Ecology and Biogeography</i> , 2012 , 21, 1179-1190	6.1	158
18	Tropical forest warming: looking backwards for more insights. <i>Trends in Ecology and Evolution</i> , 2012 , 27, 193-4	10.9	42
17	Detecting evidence for CO2 fertilization from tree ring studies: The potential role of sampling biases. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	86
16	The carbon balance of South America: a review of the status, decadal trends and main determinants. <i>Biogeosciences</i> , 2012 , 9, 5407-5430	4.6	70
15	Tree height integrated into pantropical forest biomass estimates. <i>Biogeosciences</i> , 2012 , 9, 3381-3403	4.6	289
14	Oxygen isotopes in tree rings are a good proxy for Amazon precipitation and El Nino-Southern Oscillation variability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16957-62	11.5	130

13	Stable carbon isotopes in tree rings indicate improved water use efficiency and drought responses of a tropical dry forest tree species. <i>Trees - Structure and Function</i> , 2011 , 25, 103-113	2.6	73
12	Tropical tree rings reveal preferential survival of fast-growing juveniles and increased juvenile growth rates over time. <i>New Phytologist</i> , 2010 , 185, 759-69	9.8	61
11	Climate-growth analysis for a Mexican dry forest tree shows strong impact of sea surface temperatures and predicts future growth declines. <i>Global Change Biology</i> , 2010 , 16, 2001-2012	11.4	76
10	Attaining the canopy in dry and moist tropical forests: strong differences in tree growth trajectories reflect variation in growing conditions. <i>Oecologia</i> , 2010 , 163, 485-96	2.9	55
9	The Potential of Tree Rings for the Study of Forest Succession in Southern Mexico. <i>Biotropica</i> , 2009 , 41, 186-195	2.3	40
8	Do persistently fast-growing juveniles contribute disproportionately to population growth? A new analysis tool for matrix models and its application to rainforest trees. <i>American Naturalist</i> , 2009 , 174, 709-19	3.7	53
7	Incorporating persistent tree growth differences increases estimates of tropical timber yield. <i>Frontiers in Ecology and the Environment</i> , 2007 , 5, 302-306	5.5	38
6	The use of tree rings in tropical forest management: Projecting timber yields of four Bolivian tree species. <i>Forest Ecology and Management</i> , 2006 , 226, 256-267	3.9	84
5	Autocorrelated growth of tropical forest trees: Unraveling patterns and quantifying consequences. <i>Forest Ecology and Management</i> , 2006 , 237, 179-190	3.9	56
4	Relating tree growth to rainfall in Bolivian rain forests: a test for six species using tree ring analysis. <i>Oecologia</i> , 2005 , 146, 1-12	2.9	197
3	Tree-ring oxygen isotopes record a decrease in Amazon dry season rainfall over the past 40 years. <i>Climate Dynamics</i> , 1	4.2	2
2	Tree height integrated into pan-tropical forest biomass estimates		30
1	Tropical tree growth driven by dry-season climate variability. <i>Nature Geoscience</i> ,	18.3	2