

David R Galbraith

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

7,012
citations

94433

37
h-index

123424

61
g-index

66
all docs

66
docs citations

66
times ranked

9082
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of impulse tomography in the evaluation of <i>Manilkara huberi</i> (mañsaranduba) managed of the Amazon rainforest. <i>Wood Material Science and Engineering</i> , 2023, 18, 975-985.	2.3	1
2	Hydraulic traits predict stem growth across <i>Hevea brasiliensis</i> clones in a Malaysian climatically marginal area. <i>Forest Ecology and Management</i> , 2022, 504, 119864.	3.2	2
3	Variation of non-structural carbohydrates across the fast-slow continuum in Amazon Forest canopy trees. <i>Functional Ecology</i> , 2022, 36, 341-355.	3.6	9
4	Photosynthesis in action: The global view. , 2022, , 243-269.		0
5	Climate and crown damage drive tree mortality in southern Amazonian edge forests. <i>Journal of Ecology</i> , 2022, 110, 876-888.	4.0	12
6	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.	3.3	1
7	Water table depth modulates productivity and biomass across Amazonian forests. <i>Global Ecology and Biogeography</i> , 2022, 31, 1571-1588.	5.8	17
8	A novel in situ passive heating method for evaluating whole-tree responses to daytime warming in remote environments. <i>Plant Methods</i> , 2022, 18, .	4.3	0
9	Photosynthetic quantum efficiency in south-eastern Amazonian trees may be already affected by climate change. <i>Plant, Cell and Environment</i> , 2021, 44, 2428-2439.	5.7	22
10	Understanding water and energy fluxes in the Amazonia: Lessons from an observation-model intercomparison. <i>Global Change Biology</i> , 2021, 27, 1802-1819.	9.5	6
11	Trees at the Amazonia-Cerrado transition are approaching high temperature thresholds. <i>Environmental Research Letters</i> , 2021, 16, 034047.	5.2	19
12	Non-structural carbohydrates mediate seasonal water stress across Amazon forests. <i>Nature Communications</i> , 2021, 12, 2310.	12.8	59
13	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , 2021, 5, 757-767.	7.8	27
14	Soil water-holding capacity and monodominance in Southern Amazon tropical forests. <i>Plant and Soil</i> , 2020, 450, 65-79.	3.7	12
15	Effect of agroclimatic variability on land suitability for cultivating rubber (<i>Hevea brasiliensis</i>) and growth performance assessment in the tropical rainforest climate of Peninsular Malaysia. <i>Climate Risk Management</i> , 2020, 27, 100203.	3.2	13
16	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020, 11, 5515.	12.8	62
17	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	12.6	198
18	Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , 2020, 10, 10130.	3.3	53

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19	Limited biomass recovery from gold mining in Amazonian forests. <i>Journal of Applied Ecology</i> , 2020, 57, 1730-1740.	4.0	22
20	Causes and consequences of liana infestation in southern Amazonia. <i>Journal of Ecology</i> , 2020, 108, 2184-2197.	4.0	13
21	Upturn in secondary forest clearing buffers primary forest loss in the Brazilian Amazon. <i>Nature Sustainability</i> , 2020, 3, 290-295.	23.7	44
22	Evolutionary diversity is associated with wood productivity in Amazonian forests. <i>Nature Ecology and Evolution</i> , 2019, 3, 1754-1761.	7.8	32
23	Rarity of monodominance in hyperdiverse Amazonian forests. <i>Scientific Reports</i> , 2019, 9, 13822.	3.3	28
24	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	19
25	Contrasting responses of stomatal conductance and photosynthetic capacity to warming and elevated CO ₂ in the tropical tree species <i>Alchornea glandulosa</i> under heatwave conditions. <i>Environmental and Experimental Botany</i> , 2019, 158, 28-39.	4.2	47
26	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019, 25, 39-56.	9.5	265
27	Mapping tropical disturbed forests using multi-decadal 30m optical satellite imagery. <i>Remote Sensing of Environment</i> , 2019, 221, 474-488.	11.0	52
28	Research frontiers for improving our understanding of drought-induced tree and forest mortality. <i>New Phytologist</i> , 2018, 218, 15-28.	7.3	334
29	Differences in leaf thermoregulation and water use strategies between three co-occurring Atlantic forest tree species. <i>Plant, Cell and Environment</i> , 2018, 41, 1618-1631.	5.7	92
30	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018, 219, 851-869.	7.3	341
31	Pervasive Rise of Small-scale Deforestation in Amazonia. <i>Scientific Reports</i> , 2018, 8, 1600.	3.3	127
32	What controls variation in carbon use efficiency among Amazonian tropical forests?. <i>Biotropica</i> , 2018, 50, 16-25.	1.6	28
33	A generic pixel-to-point comparison for simulated large-scale ecosystem properties and ground-based observations: an example from the Amazon region. <i>Geoscientific Model Development</i> , 2018, 11, 5203-5215.	3.6	6
34	Biogeographic distributions of neotropical trees reflect their directly measured drought tolerances. <i>Scientific Reports</i> , 2017, 7, 8334.	3.3	51
35	Do dynamic global vegetation models capture the seasonality of carbon fluxes in the Amazon basin? A data-model intercomparison. <i>Global Change Biology</i> , 2017, 23, 191-208.	9.5	106
36	Impacts of future deforestation and climate change on the hydrology of the Amazon Basin: a multi-model analysis with a new set of land-cover change scenarios. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1455-1475.	4.9	69

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37	Land-Atmosphere Interactions. <i>Advances in Meteorology</i> , 2016, 2016, 1-1.	1.6	1
38	Linking hydraulic traits to tropical forest function in a size-structured and trait-driven model (TFSAv.1-Hydro). <i>Geoscientific Model Development</i> , 2016, 9, 4227-4255.	3.6	211
39	Evolutionary heritage influences Amazon tree ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161587.	2.6	43
40	When a Tree Dies in the Forest: Scaling Climate-Driven Tree Mortality to Ecosystem Water and Carbon Fluxes. <i>Ecosystems</i> , 2016, 19, 1133-1147.	3.4	73
41	Changing Amazon biomass and the role of atmospheric CO ₂ concentration, climate, and land use. <i>Global Biogeochemical Cycles</i> , 2016, 30, 18-39.	4.9	32
42	Modelling Amazonian Carbon Budgets and Vegetation Dynamics in a Changing Climate. <i>Ecological Studies</i> , 2016, , 331-366.	1.2	3
43	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.	9.5	116
44	The fate of Amazonian ecosystems over the coming century arising from changes in climate, atmospheric CO ₂ and land use. <i>Global Change Biology</i> , 2015, 21, 2569-2587.	9.5	97
45	The linkages between photosynthesis, productivity, growth and biomass in lowland Amazonian forests. <i>Global Change Biology</i> , 2015, 21, 2283-2295.	9.5	146
46	Increasing human dominance of tropical forests. <i>Science</i> , 2015, 349, 827-832.	12.6	551
47	Threshold Responses to Soil Moisture Deficit by Trees and Soil in Tropical Rain Forests: Insights from Field Experiments. <i>BioScience</i> , 2015, 65, 882-892.	4.9	109
48	Ecosystem respiration and net primary productivity after 8-10 years of experimental through-fall reduction in an eastern Amazon forest. <i>Plant Ecology and Diversity</i> , 2014, 7, 7-24.	2.4	52
49	The ecosystem dynamics of Amazonian and Andean forests. <i>Plant Ecology and Diversity</i> , 2014, 7, 1-6.	2.4	18
50	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. <i>Agricultural and Forest Meteorology</i> , 2014, 191, 33-50.	4.8	105
51	Residence times of woody biomass in tropical forests. <i>Plant Ecology and Diversity</i> , 2013, 6, 139-157.	2.4	104
52	Confronting model predictions of carbon fluxes with measurements of Amazon forests subjected to experimental drought. <i>New Phytologist</i> , 2013, 200, 350-365.	7.3	247
53	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 111-127.	4.8	55
54	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 145-155.	4.8	30

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55	Simulated resilience of tropical rainforests to CO2-induced climate change. <i>Nature Geoscience</i> , 2013, 6, 268-273.	12.9	358
56	African tropical rainforest net carbon dioxide fluxes in the twentieth century. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120376.	4.0	49
57	Deforestation and climate feedbacks threaten the ecological integrity of south-eastern Amazonia. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120155.	4.0	118
58	Simulating forest productivity along a neotropical elevational transect: temperature variation and carbon use efficiency. <i>Global Change Biology</i> , 2012, 18, 2882-2898.	9.5	34
59	The allocation of ecosystem net primary productivity in tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3225-3245.	4.0	317
60	Effect of 7 yr of experimental drought on vegetation dynamics and biomass storage of an eastern Amazonian rainforest. <i>New Phytologist</i> , 2010, 187, 579-591.	7.3	293
61	Multiple mechanisms of Amazonian forest biomass losses in three dynamic global vegetation models under climate change. <i>New Phytologist</i> , 2010, 187, 647-665.	7.3	189
62	Drought-mortality relationships for tropical forests. <i>New Phytologist</i> , 2010, 187, 631-646.	7.3	487
63	Integrating plant-soil interactions into global carbon cycle models. <i>Journal of Ecology</i> , 2009, 97, 851-863.	4.0	233
64	Exploring the likelihood and mechanism of a climate-change-induced dieback of the Amazon rainforest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20610-20615.	7.1	751