

Thomas L Powell

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

2,818
citations

361413

20
h-index

642732

23
g-index

23
all docs

23
docs citations

23
times ranked

5155
citing authors

#	ARTICLE	IF	CITATIONS
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
2	Vegetation demographics in Earth System Models: A review of progress and priorities. <i>Global Change Biology</i> , 2018, 24, 35-54.	9.5	478
3	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018, 219, 851-869.	7.3	341
4	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
5	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	5.2	137
6	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
7	Xylem embolism refilling and resilience against drought-induced mortality in woody plants: processes and trade-offs. <i>Ecological Research</i> , 2018, 33, 839-855.	1.5	116
8	Carbon exchange of a mature, naturally regenerated pine forest in north Florida. <i>Global Change Biology</i> , 2008, 14, 2523-2538.	9.5	87
9	Benchmarking and parameter sensitivity of physiological and vegetation dynamics using the Functionally Assembled Terrestrial Ecosystem Simulator (FATES) at Barro Colorado Island, Panama. <i>Biogeosciences</i> , 2020, 17, 3017-3044.	3.3	82
10	Environmental controls over net ecosystem carbon exchange of scrub oak in central Florida. <i>Agricultural and Forest Meteorology</i> , 2006, 141, 19-34.	4.8	76
11	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
12	Differences in xylem and leaf hydraulic traits explain differences in drought tolerance among mature Amazon rainforest trees. <i>Global Change Biology</i> , 2017, 23, 4280-4293.	9.5	66
13	Ecosystem and understory water and energy exchange for a mature, naturally regenerated pine flatwoods forest in north Florida. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1568-1580.	1.7	47
14	Disturbance, rainfall and contrasting species responses mediated aboveground biomass response to 11 years of CO ₂ enrichment in a Florida scrub-oak ecosystem. <i>Global Change Biology</i> , 2009, 15, 356-367.	9.5	47
15	Impacts of Hurricane Frances on Florida scrub-oak ecosystem processes: defoliation, net CO ₂ exchange and interactions with elevated CO ₂ . <i>Global Change Biology</i> , 2007, 13, 1101-1113.	9.5	43
16	Environmental and biological controls on water and energy exchange in Florida scrub oak and pine flatwoods ecosystems. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	41
17	Variation in hydroclimate sustains tropical forest biomass and promotes functional diversity. <i>New Phytologist</i> , 2018, 219, 932-946.	7.3	41
18	Modelling climate change responses in tropical forests: similar productivity estimates across five models, but different mechanisms and responses. <i>Geoscientific Model Development</i> , 2015, 8, 1097-1110.	3.6	31

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19	Low impact of dry conditions on the CO ₂ exchange of a Northern-Norwegian blanket bog. Environmental Research Letters, 2015, 10, 025004.	5.2	21
20	A metadata reporting framework (FRAMES) for synthesis of ecohydrological observations. Ecological Informatics, 2017, 42, 148-158.	5.2	18
21	A new phenomenological model to describe root-soil interactions based on percolation theory. Ecological Modelling, 2020, 433, 109205.	2.5	9
22	Simulating environmentally sensitive tree recruitment in vegetation demographic models. New Phytologist, 2022, 235, 78-93.	7.3	5