Thomas L Powell

List of Publications by Year
in descending order

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	Simulating environmentallyâ€sensitive tree recruitment in vegetation demographic models. New Phytologist, 2022, 235, 78-93.	7.3	5
2	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
3	A new phenomenological model to describe root-soil interactions based on percolation theory. Ecological Modelling, 2020, 433, 109205.	2.5	9
4	Benchmarking and parameter sensitivity of physiological and vegetation dynamics using the Functionally Assembled Terrestrial Ecosystem Simulator (FATES) at Barro Colorado Island, Panama. Biogeosciences, 2020, 17, 3017-3044.	3.3	82
5	Drivers and mechanisms of tree mortality in moist tropical forests. New Phytologist, 2018, 219, 851-869.	7.3	341
6	Xylem embolism refilling and resilience against droughtâ€induced mortality in woody plants: processes and tradeâ€offs. Ecological Research, 2018, 33, 839-855.	1.5	116
7	Vegetation demographics in Earth System Models: A review of progress and priorities. Global Change Biology, 2018, 24, 35-54.	9.5	478
8	Variation in hydroclimate sustains tropical forest biomass and promotes functional diversity. New Phytologist, 2018, 219, 932-946.	7.3	41
9	Differences in xylem and leaf hydraulic traits explain differences in drought tolerance among mature Amazon rainforest trees. Global Change Biology, 2017, 23, 4280-4293.	9.5	66
10	A metadata reporting framework (FRAMES) for synthesis of ecohydrological observations. Ecological Informatics, 2017, 42, 148-158.	5.2	18
11	When a Tree Dies in the Forest: Scaling Climate-Driven Tree Mortality to Ecosystem Water and Carbon Fluxes. Ecosystems, 2016, 19, 1133-1147.	3.4	73
12	Modelling climate change responses in tropical forests: similar productivity estimates across five models, but different mechanisms and responses. Geoscientific Model Development, 2015, 8, 1097-1110.	3.6	31
13	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
14	Confronting model predictions of carbon fluxes with measurements of Amazon forests subjected to experimental drought. New Phytologist, 2013, 200, 350-365.	7.3	247
15	Deforestation and climate feedbacks threaten the ecological integrity of southâ€“southeastern Amazonia. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120155.	4.0	118
16	Climate control of terrestrial carbon exchange across biomes and continents. Environmental Research Letters, 2010, 5, 034007.	5.2	137
17	Disturbance, rainfall and contrasting species responses mediated aboveground biomass response to 11 years of CO₂ enrichment in a Florida scrubâ€oak ecosystem. Global Change Biology, 2009, 15, 356-367.	9.5	47
18	Carbon exchange of a mature, naturally regenerated pine forest in north Florida. Global Change Biology, 2008, 14, 2523-2538.	9.5	87

#	Article	IF	Citations
19	Environmental and biological controls on water and energy exchange in Florida scrub oak and pine flatwoods ecosystems. Journal of Geophysical Research, 2008, 113, .	3.3	41
20	Impacts of Hurricane Frances on Florida scrub-oak ecosystem processes: defoliation, net CO2exchange and interactions with elevated CO2. Global Change Biology, 2007, 13, 1101-1113.	9.5	43
21	Environmental controls over net ecosystem carbon exchange of scrub oak in central Florida. Agricultural and Forest Meteorology, 2006, 141, 19-34.	4.8	76
22	Ecosystem and understory water and energy exchange for a mature, naturally regenerated pine flatwoods forest in north Florida. Canadian Journal of Forest Research, 2005, 35, 1568-1580.	1.7	47