

Doug P Aubrey

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,392
citations

361413

20
h-index

361022

35
g-index

62
all docs

62
docs citations

62
times ranked

1551
citing authors

#	ARTICLE	IF	CITATIONS
1	Root-derived CO ₂ efflux via xylem stream rivals soil CO ₂ efflux. <i>New Phytologist</i> , 2009, 184, 35-40.	7.3	147
2	Transport of root-respired CO ₂ via the transpiration stream affects aboveground carbon assimilation and CO ₂ efflux in trees. <i>New Phytologist</i> , 2013, 197, 555-565.	7.3	128
3	Seabird guano influences on desert islands: soil chemistry and herbaceous species richness and productivity. <i>Journal of Arid Environments</i> , 2005, 60, 681-695.	2.4	90
4	Above- and below-ground biomass accumulation, production, and distribution of sweetgum and loblolly pine grown with irrigation and fertilization. <i>Canadian Journal of Forest Research</i> , 2008, 38, 1335-1348.	1.7	83
5	A simple calibration improved the accuracy of the thermal dissipation technique for sap flow measurements in juvenile trees of six species. <i>Trees - Structure and Function</i> , 2012, 26, 631-640.	1.9	61
6	Global patterns and predictors of stem CO ₂ efflux in forest ecosystems. <i>Global Change Biology</i> , 2016, 22, 1433-1444.	9.5	61
7	Managing forests with prescribed fire: Implications for a cavity-dwelling bat species. <i>Forest Ecology and Management</i> , 2006, 222, 108-115.	3.2	59
8	Soil and microbial respiration in a loblolly pine plantation in response to seven years of irrigation and fertilization. <i>Forest Ecology and Management</i> , 2009, 258, 2431-2438.	3.2	57
9	Growth responses of narrow or broad site adapted tree species to a range of resource availability treatments after a full harvest rotation. <i>Forest Ecology and Management</i> , 2016, 362, 107-119.	3.2	45
10	Stored root carbohydrates can maintain root respiration for extended periods. <i>New Phytologist</i> , 2018, 218, 142-152.	7.3	41
11	Stem girdling affects the quantity of CO ₂ transported in xylem as well as CO ₂ efflux from soil. <i>New Phytologist</i> , 2014, 201, 897-907.	7.3	37
12	Tree crown injury from wildland fires: causes, measurement and ecological and physiological consequences. <i>New Phytologist</i> , 2021, 231, 1676-1685.	7.3	35
13	Assimilation of xylem-transported CO ₂ is dependent on transpiration rate but is small relative to atmospheric fixation. <i>Journal of Experimental Botany</i> , 2013, 64, 2129-2138.	4.8	34
14	Environmental effects of short-rotation woody crops for bioenergy: What is and isn't known. <i>GCB Bioenergy</i> , 2019, 11, 554-572.	5.6	32
15	Overlap in Roosting Habits of Indiana Bats (<i>Myotis sodalis</i>) and Northern Bats (<i>Myotis</i>)	1.0	29
16	Influence of repeated canopy scorching on soil CO ₂ efflux. <i>Forest Ecology and Management</i> , 2012, 282, 142-148.	3.2	25
17	Temporal and spatial patterns of internal and external stem CO ₂ fluxes in a sub-Mediterranean oak. <i>Tree Physiology</i> , 2016, 36, 2029.	3.1	25
18	Functional groups show distinct differences in nitrogen cycling during early stand development: implications for forest management. <i>Plant and Soil</i> , 2012, 351, 219-236.	3.7	24

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19	Stand development and other intrinsic factors largely control fine-root dynamics with only subtle modifications from resource availability. <i>Tree Physiology</i> , 2018, 38, 1805-1819.	3.1	23
20	Internal recycling of respired CO ₂ may be important for plant functioning under changing climate regimes. <i>Plant Signaling and Behavior</i> , 2013, 8, e27530.	2.4	22
21	Poplar saplings exposed to recurring temperature shifts of different amplitude exhibit differences in leaf gas exchange and growth despite equal mean temperature. <i>AoB PLANTS</i> , 2014, 6, .	2.3	21
22	Xylem and soil CO ₂ fluxes in a <i>Quercus pyrenaica</i> Willd. coppice: root respiration increases with clonal size. <i>Annals of Forest Science</i> , 2015, 72, 1065-1078.	2.0	21
23	Spatial and temporal patterns of xylem sap pH derived from stems and twigs of <i>Populus deltoides</i> L.. <i>Environmental and Experimental Botany</i> , 2011, 71, 376-376.	4.2	20
24	Optimal nitrogen application rates for three intensively-managed hardwood tree species in the southeastern USA. <i>Forest Ecology and Management</i> , 2013, 303, 131-142.	3.2	20
25	Woody bioenergy crop selection can have large effects on water yield: A southeastern United States case study. <i>Biomass and Bioenergy</i> , 2018, 117, 180-189.	5.7	20
26	Seasonal and diel variation in xylem CO ₂ concentration and sap pH in sub-Mediterranean oak stems. <i>Journal of Experimental Botany</i> , 2016, 67, 2817-2827.	4.8	18
27	Root xylem CO ₂ flux: an important but unaccounted-for component of root respiration. <i>Trees - Structure and Function</i> , 2016, 30, 343-352.	1.9	18
28	Herbicide, fertilization, and planting density effects on intensively managed loblolly pine early stand development. <i>Forest Ecology and Management</i> , 2020, 472, 118206.	3.2	15
29	Integration of ecosystem science into radioecology: A consensus perspective. <i>Science of the Total Environment</i> , 2020, 740, 140031.	8.0	13
30	Respiration and CO ₂ Fluxes in Trees. <i>Advances in Photosynthesis and Respiration</i> , 2017, , 181-207.	1.0	12
31	Cell Wall Ultrastructure of Stem Wood, Roots, and Needles of a Conifer Varies in Response to Moisture Availability. <i>Frontiers in Plant Science</i> , 2016, 7, 882.	3.6	11
32	Carbon starvation is absent regardless of season of burn in <i>Liquidambar styraciflua</i> L.. <i>Forest Ecology and Management</i> , 2021, 479, 118588.	3.2	11
33	From Farms to Forests: Landscape Carbon Balance after 50 Years of Afforestation, Harvesting, and Prescribed Fire. <i>Forests</i> , 2019, 10, 760.	2.1	10
34	Recalibrating Best Practices, Challenges, and Limitations of Estimating Tree Transpiration Via Sap Flow. <i>Current Forestry Reports</i> , 2021, 7, 31.	7.4	9
35	Observed compression of in situ tree stems during freezing. <i>Agricultural and Forest Meteorology</i> , 2017, 243, 19-24.	4.8	8
36	Xylem transport of root-derived CO ₂ caused a substantial underestimation of belowground respiration during a growing season. <i>Global Change Biology</i> , 2021, 27, 2991-3000.	9.5	8

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37	Relevance of Precipitation Partitioning to the Tree Water and Nutrient Balance. , 2020, , 147-162.		8
38	Xeric Tree Populations Exhibit Delayed Summer Depletion of Root Starch Relative to Mesic Counterparts. Forests, 2020, 11, 1026.	2.1	7
39	Root Exudation Rates Decrease with Increasing Latitude in Some Tree Species. Forests, 2020, 11, 1045.	2.1	7
40	Temporal nitrogen dynamics in intensively managed loblolly pine early stand development. Forest Ecology and Management, 2021, 483, 118890.	3.2	7
41	Grass(stage)root movement to ensure future resilience of longleaf pine ecosystems. New Forests, 2022, 53, 971-982.	1.7	7
42	Predictive capability of a leaf optical meter for determining leaf pigment status during senescence. Photosynthetica, 2017, 55, 543-552.	1.7	6
43	Belowground Carbohydrate Reserves of Mature Southern Pines Reflect Seedling Strategy to Evolutionary History of Disturbance. Forests, 2018, 9, 653.	2.1	6
44	Groundwater Depth Overrides Tree-Species Effects on the Structure of Soil Microbial Communities Involved in Nitrogen Cycling in Plantation Forests. Forests, 2020, 11, 275.	2.1	6
45	Calibration approach and range of observed sap flow influences transpiration estimates from thermal dissipation sensors. Agricultural and Forest Meteorology, 2021, 307, 108534.	4.8	5
46	Statistical Confusion Among Graduate Students: Sickness or Symptom?. Journal of Wildlife Management, 2008, 72, 1869-1871.	1.8	4
47	Variation in physiological response of red imported fire ants (<i>Solenopsis invicta</i>) to small-scale thermal heterogeneity. Journal of Thermal Biology, 2009, 34, 81-84.	2.5	4
48	A quantitative method for analyzing glycome profiles of plant cell walls. Carbohydrate Research, 2017, 448, 128-135.	2.3	4
49	Eucalyptus Are Unlikely to Escape Plantations and Invade Surrounding Forests Managed with Prescribed Fire in Southeastern US. Forests, 2020, 11, 694.	2.1	4
50	Seasonal non-structural carbohydrate dynamics differ between twig bark and xylem tissues. Trees - Structure and Function, 2022, 36, 1231-1245.	1.9	4
51	Water use in a young <i>Pinus taeda</i> bioenergy plantation: Effect of intensive management on stand evapotranspiration. Ecosphere, 2022, 13, .	2.2	4
52	Intermediate time scale response of atmospheric CO ₂ following prescribed fire in a longleaf pine forest. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2745-2760.	3.0	3
53	Half-sibling loblolly pine clones exhibited intraspecific variation, a G × E interaction, and differences in stable isotope composition in response to soil moisture availability. Environmental and Experimental Botany, 2017, 138, 88-98.	4.2	3
54	Changes in Soil Microbial Community Structure Following Different Tree Species Functional Traits Afforestation. Forests, 2021, 12, 1018.	2.1	2

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55	Interspecific variation in the timing and magnitude of hydraulic redistribution in a forest with distinct water sources. <i>Plant and Soil</i> , 2022, 472, 451-464.	3.7	2
56	Targeting journals and covering letters. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 161-162.	4.0	1
57	<i>Cristulariella moricola</i> associated with foliar blight of Camden white gum (<i>Eucalyptus benthamii</i>), a bioenergy crop. <i>Biomass and Bioenergy</i> , 2017, 105, 464-469.	5.7	1
58	Increasing Biomass Production on Limited Land Area Through an Optimal Planting Arrangement. <i>Bioenergy Research</i> , 2018, 11, 13-21.	3.9	1
59	Soil CO ₂ concentration, efflux, and partitioning in a recently afforested grassland. <i>New Forests</i> , 2021, 52, 737-757.	1.7	1
60	Not sure about a PhD? Work on a "pre-PhD". <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 105-106.	4.0	0