

Heather R Mccarthy

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

6,685
citations

94269

37
h-index

149479

56
g-index

59
all docs

59
docs citations

59
times ranked

7322
citing authors

#	ARTICLE	IF	CITATIONS
1	The response of coarse root biomass to long-term CO ₂ enrichment and nitrogen application in a maturing <i>Pinus taeda</i> stand with a large broadleaved component. <i>Global Change Biology</i> , 2022, 28, 1458-1476.	4.2	4
2	Urban plant diversity in Los Angeles, California: Species and functional type turnover in cultivated landscapes. <i>Plants People Planet</i> , 2020, 2, 144-156.	1.6	35
3	Germination, Survival, and Establishment of a Rare Riparian Species <i>Alnus maritima</i> . <i>Castanea</i> , 2019, 84, 144.	0.2	1
4	Global patterns of extreme drought-induced loss in land primary production: Identifying ecological extremes from rain-use efficiency. <i>Science of the Total Environment</i> , 2018, 628-629, 611-620.	3.9	69
5	Responses of gross primary production of grasslands and croplands under drought, pluvial, and irrigation conditions during 2010–2016, Oklahoma, USA. <i>Agricultural Water Management</i> , 2018, 204, 47-59.	2.4	38
6	Housing Age and Affluence Influence Plant and Soil Nitrogen and Carbon Cycles in Two Semiarid Cities. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3178-3192.	1.3	4
7	Evapotranspiration and water yield of a pine–broadleaf forest are not altered by long-term atmospheric [CO ₂] enrichment under native or enhanced soil fertility. <i>Global Change Biology</i> , 2018, 24, 4841-4856.	4.2	16
8	Tree Species with Photosynthetic Stems Have Greater Nighttime Sap Flux. <i>Frontiers in Plant Science</i> , 2018, 9, 30.	1.7	12
9	Carbon dioxide and water vapor fluxes in winter wheat and tallgrass prairie in central Oklahoma. <i>Science of the Total Environment</i> , 2018, 644, 1511-1524.	3.9	29
10	Dynamics of soil CO ₂ efflux under varying atmospheric CO ₂ concentrations reveal dominance of slow processes. <i>Global Change Biology</i> , 2017, 23, 3501-3512.	4.2	5
11	A method for estimating transpiration of irrigated urban trees in California. <i>Landscape and Urban Planning</i> , 2017, 158, 48-61.	3.4	38
12	Hydraulic Balance of a <i>Eucalyptus urophylla</i> Plantation in Response to Periodic Drought in Low Subtropical China. <i>Frontiers in Plant Science</i> , 2016, 7, 1346.	1.7	11
13	Canopy and physiological controls of GPP during drought and heat wave. <i>Geophysical Research Letters</i> , 2016, 43, 3325-3333.	1.5	75
14	Influence of the decoupling degree on the estimation of canopy stomatal conductance for two broadleaf tree species. <i>Agricultural and Forest Meteorology</i> , 2016, 221, 230-241.	1.9	39
15	Tree diversity in southern California's urban forest: the interacting roles of social and environmental variables. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	1.1	63
16	Using ecosystem experiments to improve vegetation models. <i>Nature Climate Change</i> , 2015, 5, 528-534.	8.1	249
17	Understanding preferences for tree attributes: the relative effects of socio-economic and local environmental factors. <i>Urban Ecosystems</i> , 2015, 18, 73-86.	1.1	84
18	How Climate Change Affects Extremes in Maize and Wheat Yield in Two Cropping Regions. <i>Journal of Climate</i> , 2015, 28, 4653-4687.	1.2	25

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19	Increases in atmospheric CO ₂ have little influence on transpiration of a temperate forest canopy. <i>New Phytologist</i> , 2015, 205, 518-525.	3.5	61
20	CO ₂ uptake of a mature <i>Acacia mangium</i> plantation estimated from sap flow measurements and stable carbon isotope discrimination. <i>Biogeosciences</i> , 2014, 11, 1393-1411.	1.3	9
21	Where does the carbon go? A model-data intercomparison of vegetation carbon allocation and turnover processes at two temperate forest free-air CO ₂ enrichment sites. <i>New Phytologist</i> , 2014, 203, 883-899.	3.5	263
22	Evaluation of 11 terrestrial carbon-nitrogen cycle models against observations from two temperate forest CO ₂ enrichment studies. <i>New Phytologist</i> , 2014, 202, 803-822.	3.5	378
23	Sustained effects of atmospheric [CO ₂] and nitrogen availability on forest soil CO ₂ efflux. <i>Global Change Biology</i> , 2014, 20, 1146-1160.	4.2	23
24	Comprehensive ecosystem model-data synthesis using multiple data sets at two temperate forest free-air CO ₂ enrichment experiments: Model performance at ambient CO ₂ concentration. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 937-964.	1.3	95
25	A trait-based ecology of the Los Angeles urban forest. <i>Ecosphere</i> , 2013, 4, 1-20.	1.0	53
26	The effects of elevated CO ₂ and nitrogen fertilization on stomatal conductance estimated from 11 years of scaled sap flux measurements at Duke FACE. <i>Tree Physiology</i> , 2013, 33, 135-151.	1.4	54
27	Elevated CO ₂ increases tree-level intrinsic water use efficiency: insights from carbon and oxygen isotope analyses in tree rings across three forest FACE sites. <i>New Phytologist</i> , 2013, 197, 544-554.	3.5	210
28	VIC+ for water-limited conditions: A study of biological and hydrological processes and their interactions in soil-plant-atmosphere continuum. <i>Water Resources Research</i> , 2013, 49, 7711-7732.	1.7	25
29	Increased resin flow in mature pine trees growing under elevated CO ₂ and moderate soil fertility. <i>Tree Physiology</i> , 2012, 32, 752-763.	1.4	41
30	Transpiration sensitivity of urban trees in a semi-arid climate is constrained by xylem vulnerability to cavitation. <i>Tree Physiology</i> , 2012, 32, 373-388.	1.4	80
31	Integrating empirical modeling approaches to improve understanding of terrestrial ecology processes. <i>New Phytologist</i> , 2012, 195, 523-525.	3.5	6
32	Water sources of urban trees in the Los Angeles metropolitan area. <i>Urban Ecosystems</i> , 2012, 15, 195-214.	1.1	52
33	Transpiration of urban forests in the Los Angeles metropolitan area. , 2011, 21, 661-677.		223
34	Increases in the flux of carbon belowground stimulate nitrogen uptake and sustain the long-term enhancement of forest productivity under elevated CO ₂ . <i>Ecology Letters</i> , 2011, 14, 349-357.	3.0	374
35	Water relations of coast redwood planted in the semi-arid climate of southern California. <i>Plant, Cell and Environment</i> , 2011, 34, 1384-1400.	2.8	26
36	Sources of increased N uptake in forest trees growing under elevated CO ₂ : results of a large-scale 15N study. <i>Global Change Biology</i> , 2011, 17, 3338-3350.	4.2	40

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37	Plant water-use efficiency as a metric of urban ecosystem services. , 2011, 21, 3115-3127.		62
38	Drivers of variability in water use of native and non-native urban trees in the greater Los Angeles area. Urban Ecosystems, 2010, 13, 393-414.	1.1	79
39	Reassessment of plant carbon dynamics at the Duke free-air CO ₂ enrichment site: interactions of atmospheric [CO ₂] with nitrogen and water availability over stand development. New Phytologist, 2010, 185, 514-528.	3.5	242
40	Greater seed production in elevated CO ₂ is not accompanied by reduced seed quality in <i>Pinus taeda</i> L. Global Change Biology, 2010, 16, 1046-1056.	4.2	50
41	Variable conductivity and embolism in roots and branches of four contrasting tree species and their impacts on whole-plant hydraulic performance under future atmospheric CO ₂ concentration. Tree Physiology, 2010, 30, 1001-1015.	1.4	91
42	Estimation of long-term basin scale evapotranspiration from streamflow time series. Water Resources Research, 2010, 46, .	1.7	64
43	Energy, water, and carbon fluxes in a loblolly pine stand: Results from uniform and gappy canopy models with comparisons to eddy flux data. Journal of Geophysical Research, 2009, 114, .	3.3	22
44	Investigating a Hierarchy of Eulerian Closure Models for Scalar Transfer Inside Forested Canopies. Boundary-Layer Meteorology, 2008, 128, 1-32.	1.2	72
45	Role of vegetation in determining carbon sequestration along ecological succession in the southeastern United States. Global Change Biology, 2008, 14, 1409-1427.	4.2	87
46	Temporal dynamics and spatial variability in the enhancement of canopy leaf area under elevated atmospheric CO ₂ . Global Change Biology, 2007, 13, 2479-2497.	4.2	107
47	Modeling nighttime ecosystem respiration from measured CO ₂ concentration and air temperature profiles using inverse methods. Journal of Geophysical Research, 2006, 111, .	3.3	34
48	Interaction of ice storms and management practices on current carbon sequestration in forests with potential mitigation under future CO ₂ atmosphere. Journal of Geophysical Research, 2006, 111, .	3.3	50
49	PROGRESSIVE NITROGEN LIMITATION OF ECOSYSTEM PROCESSES UNDER ELEVATED CO ₂ IN A WARM-TEMPERATE FOREST. Ecology, 2006, 87, 15-25.	1.5	210
50	Estimating the uncertainty in annual net ecosystem carbon exchange: spatial variation in turbulent fluxes and sampling errors in eddy-covariance measurements. Global Change Biology, 2006, 12, 883-896.	4.2	140
51	Multiscale model intercomparisons of CO ₂ and H ₂ O exchange rates in a maturing southeastern US pine forest. Global Change Biology, 2006, 12, 1189-1207.	4.2	80
52	Separating the effects of climate and vegetation on evapotranspiration along a successional chronosequence in the southeastern US. Global Change Biology, 2006, 12, 2115-2135.	4.2	219
53	Aboveground sink strength in forests controls the allocation of carbon below ground and its [CO ₂]-induced enhancement. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19362-19367.	3.3	109
54	Canopy leaf area constrains [CO ₂]-induced enhancement of productivity and partitioning among aboveground carbon pools. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19356-19361.	3.3	94

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55	Contrasting responses to drought of forest floor CO ₂ efflux in a Loblolly pine plantation and a nearby Oak-Hickory forest. <i>Global Change Biology</i> , 2005, 11, 421-434.	4.2	95
56	Variability in net ecosystem exchange from hourly to inter-annual time scales at adjacent pine and hardwood forests: a wavelet analysis. <i>Tree Physiology</i> , 2005, 25, 887-902.	1.4	129
57	Forest response to elevated CO ₂ is conserved across a broad range of productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18052-18056.	3.3	880
58	Soil fertility limits carbon sequestration by forest ecosystems in a CO ₂ -enriched atmosphere. <i>Nature</i> , 2001, 411, 469-472.	13.7	957