Gregory Starr

List of Publications by Year
in descending order

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58 papers	1,976 citations	257450 24 h-index	254184 43 g-index
62 all docs	62 docs citations	62 times ranked	2868 citing authors

#	Article	IF	Citations
1	Integrating Aquatic Metabolism and Net Ecosystem CO2 Balance in Short- and Long-Hydroperiod Subtropical Freshwater Wetlands. Ecosystems, 2022, 25, 567-585.	3.4	4
2	Methane emissions from subtropical wetlands: An evaluation of the role of data filtering on annual methane budgets. Agricultural and Forest Meteorology, 2022, 321, 108972.	4.8	3
3	Gaps in network infrastructure limit our understanding of biogenic methane emissions for the United States. Biogeosciences, 2022, 19, 2507-2522.	3.3	3
4	Uncertainty in parameterizing a fluxâ€based model of vegetation carbon phenology using ecosystem respiration. Ecosphere, 2022, 13, .	2.2	1
5	Water use in a young Pinus taeda bioenergy plantation: Effect of intensive management on stand evapotranspiration. Ecosphere, 2022, 13, .	2.2	4
6	Forest structure and composition drive differences in metabolic energy and entropy dynamics during temperature extremes in longleaf pine savannas. Agricultural and Forest Meteorology, 2021, 297, 108252.	4.8	6
7	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. Agricultural and Forest Meteorology, 2021, 301-302, 108350.	4.8	125
8	Vegetation structure drives forest phenological recovery after hurricane. Science of the Total Environment, 2021, 774, 145651.	8.0	7
9	Mapping CO2 fluxes of cypress swamp and marshes in the Greater Everglades using eddy covariance measurements and Landsat data. Remote Sensing of Environment, 2021, 262, 112523.	11.0	10
10	Characterizing Growing Season Length of Subtropical Coniferous Forests with a Phenological Model. Forests, 2021, 12, 95.	2.1	7
11	Freshwater wetland plants respond nonlinearly to inundation over a sustained period. American Journal of Botany, 2021, 108, 1917-1931.	1.7	3
12	A model comparison of fire return interval impacts on carbon and species dynamics in a southeastern U.S. pineland. Ecosphere, 2021, 12, e03836.	2.2	1
13	A Research Framework to Integrate Cross-Ecosystem Responses to Tropical Cyclones. BioScience, 2020, 70, 477-489.	4.9	33
14	Using Metabolic Energy Density Metrics to Understand Differences in Ecosystem Function During Drought. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005335.	3.0	6
15	Intensified inundation shifts a freshwater wetland from a CO₂ sink to a source. Global Change Biology, 2019, 25, 3319-3333.	9.5	34
16	Quantifying carbon and species dynamics under different fire regimes in a southeastern U.S. pineland. Ecosphere, 2019, 10, e02772.	2.2	13
17	Quantifying energy use efficiency via entropy production: a case study from longleaf pine ecosystems. Biogeosciences, 2019, 16, 1845-1863.	3.3	8
18	The role of understory phenology and productivity in the carbon dynamics of longleaf pine savannas. Ecosphere, 2019, 10, e02675.	2.2	11

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19	Interactions Among Abiotic Drivers, Disturbance and Gross Ecosystem Carbon Exchange on Soil Respiration from Subtropical Pine Savannas. Ecosystems, 2018, 21, 1639-1658.	3.4	13
20	Variation in ecosystem carbon dynamics of saltwater marshes in the northern Gulf of Mexico. Wetlands Ecology and Management, 2018, 26, 581-596.	1.5	6
21	Toward a Social-Ecological Theory of Forest Macrosystems for Improved Ecosystem Management. Forests, 2018, 9, 200.	2.1	9
22	Contrasting Photosynthetic Responses of Two Dominant Macrophyte Species to Seasonal Inundation in an Everglades Freshwater Prairie. Wetlands, 2018, 38, 893-903.	1.5	5
23	Comparison of sensible heat flux measured by large aperture scintillometer and eddy covariance in a seasonally-inundated wetland. Agricultural and Forest Meteorology, 2018, 259, 345-354.	4.8	9
24	Preserving the variance in imputed eddy-covariance measurements: Alternative methods for defensible gap filling. Agricultural and Forest Meteorology, 2017, 232, 635-649.	4.8	11
25	Carbon Dynamics of Pinus palustris Ecosystems Following Drought. Forests, 2016, 7, 98.	2.1	22
26	How Do Urban Forests Compare? Tree Diversity in Urban and Periurban Forests of the Southeastern US. Forests, 2016, 7, 120.	2.1	39
27	Sensitivity to Low-Temperature Events: Implications for CO2 Dynamics in Subtropical Coastal Ecosystems. Wetlands, 2016, 36, 957-967.	1.5	9
28	Resolving uncertainties in predictive equations for urban tree crown characteristics of the southeastern United States: Local and general equations for common and widespread species. Urban Forestry and Urban Greening, 2016, 20, 282-294.	5.3	13
29	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
30	Effects of drought and prescribed fire on energy exchange in longleaf pine ecosystems. Ecosphere, 2015, 6, 1-22.	2.2	17
31	Time series analysis of forest carbon dynamics: recovery of Pinus palustris physiology following a prescribed fire. New Forests, 2015, 46, 63-90.	1.7	32
32	Assessing Interactions Among Changing Climate, Management, and Disturbance in Forests: A Macrosystems Approach. BioScience, 2015, 65, 263-274.	4.9	38
33	El NiÃ±o Southern Oscillation (ENSO) Enhances CO2 Exchange Rates in Freshwater Marsh Ecosystems in the Florida Everglades. PLoS ONE, 2014, 9, e115058.	2.5	20
34	Seasonal patterns in energy partitioning of two freshwater marsh ecosystems in the Florida Everglades. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1487-1505.	3.0	23
35	Future climate and fire interactions in the southeastern region of the United States. Forest Ecology and Management, 2014, 327, 316-326.	3.2	126
36	Growth responses of Sphagnum hollows to a growing season lengthening manipulation in Alaskan Arctic tundra. Polar Biology, 2013, 36, 41-50.	1.2	11

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37	The Effects of Mite Galling on the Ecophysiology of Two Arctic Willows. Arctic, Antarctic, and Alpine Research, 2013, 45, 99-106.	1.1	10
38	Measured and modelled leaf and standâ€scale productivity across a soil moisture gradient and a severe drought. Plant, Cell and Environment, 2013, 36, 467-483.	5.7	31
39	Effects of simulated drought on the carbon balance of Everglades shortâ€hydroperiod marsh. Global Change Biology, 2013, 19, 2511-2523.	9.5	42
40	Diurnal patterns of gasâ€exchange and metabolic pools in tundra plants during three phases of the arctic growing season. Ecology and Evolution, 2013, 3, 375-388.	1.9	16
41	Cyclic Occurrence of Fire and Its Role in Carbon Dynamics along an Edaphic Moisture Gradient in Longleaf Pine Ecosystems. PLoS ONE, 2013, 8, e54045.	2.5	33
42	Controls on carbon dynamics by ecosystem structure and climate for southeastern U.S. slash pine plantations. Ecological Monographs, 2012, 82, 101-128.	5.4	70
43	Controls on Ecosystem Carbon Dioxide Exchange in Short- and Long-Hydroperiod Florida Everglades Freshwater Marshes. Wetlands, 2012, 32, 801-812.	1.5	32
44	Carbon dioxide exchange rates from shortâ€and longâ€hydroperiod Everglades freshwater marsh. Journal of Geophysical Research, 2012, 117, .	3.3	62
45	A new low-power, open-path instrument for measuring methane flux by eddy covariance. Applied Physics B: Lasers and Optics, 2011, 102, 391-405.	2.2	175
46	Effects of a Prescribed Fire on Understory Vegetation, Carbon Pools, and Soil Nutrients in a Longleaf Pine-Slash Pine Forest in Florida. Natural Areas Journal, 2010, 30, 82-94.	0.5	84
47	Seasonal differences in the CO2 exchange of a short-hydroperiod Florida Everglades marsh. Agricultural and Forest Meteorology, 2010, 150, 994-1006.	4.8	67
48	Carbon exchange of a mature, naturally regenerated pine forest in north Florida. Global Change Biology, 2008, 14, 2523-2538.	9.5	87
49	The Photosynthetic Response of Alaskan Tundra Plants to Increased Season Length and Soil Warming. Arctic, Antarctic, and Alpine Research, 2008, 40, 181-191.	1.1	58
50	The Effect of Local Atmospheric Circulations on Daytime Carbon Dioxide Flux Measurements over a Pinus elliottii Canopy. Journal of Applied Meteorology and Climatology, 2006, 45, 1127-1140.	1.5	10
51	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
52	Ecophysiological analysis of two arctic sedges under reduced root temperatures. Physiologia Plantarum, 2004, 120, 458-464.	5.2	21
53	PHOTOSYNTHESIS OF ARCTIC EVERGREENS UNDER SNOW: IMPLICATIONS FOR TUNDRA ECOSYSTEM CARBON BALANCE. Ecology, 2003, 84, 1415-1420.	3.2	153
54	The role of anthocyanins for photosynthesis of Alaskan arctic evergreens during snowmelt. Advances in Botanical Research, 2002, 37, 129-145.	1.1	42

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55	Effects of lengthened growing season and soil warming on the phenology and physiology of Polygonum bistorta. Global Change Biology, 2000, 6, 357-369.	9.5	100
56	Predicting vegetative bud break in two arctic deciduous shrub species, Salix pulchra and Betula nana. Oecologia, 2000, 124, 176-184.	2.0	72
57	Effects of extended growing season and soil warming on carbon dioxide and methane exchange of tussock tundra in Alaska. Journal of Geophysical Research, 1998, 103, 29075-29082.	3.3	74
58	Hurricane Michael altered the structure and function of longleaf pine woodlands. Journal of Geophysical Research G: Biogeosciences, 0, , .	3.0	3