Housen Chu

List of Publications by Year
in descending order

35 papers	2,314 citations	304743 22 h-index	361022 35 g-index
44 all docs	44 docs citations	44 times ranked	3561 citing authors

#	Article	IF	Citations
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
2	Inter-annual variability of net and gross ecosystem carbon fluxes: A review. Agricultural and Forest Meteorology, 2018, 249, 520-533.	4.8	257
3	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. Agricultural and Forest Meteorology, 2021, 301-302, 108350.	4.8	125
4	Fluxes all of the time? A primer on the temporal representativeness of FLUXNET. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 289-307.	3.0	114
5	FLUXNET-CH₄: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. Earth System Science Data, 2021, 13, 3607-3689.	9.9	79
6	Net ecosystem methane and carbon dioxide exchanges in a Lake Erie coastal marsh and a nearby cropland. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 722-740.	3.0	78
7	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. Global Change Biology, 2021, 27, 3582-3604.	9.5	59
8	Diurnal to annual changes in latent, sensible heat, and CO₂ fluxes over a Laurentian Great Lake: A case study in Western Lake Erie. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1587-1604.	3.0	56
9	Evapotranspiration of annual and perennial biofuel crops in a variable climate. GCB Bioenergy, 2015, 7, 1344-1356.	5.6	54
10	Climatic variability, hydrologic anomaly, and methane emission can turn productive freshwater marshes into net carbon sources. Global Change Biology, 2015, 21, 1165-1181.	9.5	53
11	Ten-year variability in ecosystem water use efficiency in an oak-dominated temperate forest under a warming climate. Agricultural and Forest Meteorology, 2016, 218-219, 209-217.	4.8	52
12	Seasonal variability of forest sensitivity to heat and drought stresses: A synthesis based on carbon fluxes from North American forest ecosystems. Global Change Biology, 2020, 26, 901-918.	9.5	49
13	Does canopy wetness matter? Evapotranspiration from a subtropical montane cloud forest in Taiwan. Hydrological Processes, 2014, 28, 1190-1214.	2.6	46
14	Long-term variability and environmental control of the carbon cycle in an oak-dominated temperate forest. Forest Ecology and Management, 2014, 313, 319-328.	3.2	43
15	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO₂, water, and energy fluxes on daily to annual scales. Geoscientific Model Development, 2018, 11, 497-519.	3.6	43
16	Grassland productivity and carbon sequestration in Mongolian grasslands: The underlying mechanisms and nomadic implications. Environmental Research, 2017, 159, 124-134.	7.5	35
17	Substantial hysteresis in emergent temperature sensitivity of global wetland CH4 emissions. Nature Communications, 2021, 12, 2266.	12.8	34
18	An observational study of the carbon-sink strength of East Asian subtropical evergreen forests. Environmental Research Letters, 2012, 7, 044017.	5.2	33

#	Article	IF	Citations
19	Disentangling the confounding effects of PAR and air temperature on net ecosystem exchange at multiple time scales. Ecological Complexity, 2014, 19, 46-58.	2.9	33
20	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH4 wetlands. Agricultural and Forest Meteorology, 2021, 308-309, 108528.	4.8	33
21	Temporal Dynamics of Aerodynamic Canopy Height Derived From Eddy Covariance Momentum Flux Data Across North American Flux Networks. Geophysical Research Letters, 2018, 45, 9275-9287.	4.0	31
22	The Relation Between Humidity and Liquid Water Content in Fog: An Experimental Approach. Pure and Applied Geophysics, 2012, 169, 821-833.	1.9	23
23	Climate Change Dominated Longâ€Term Soil Carbon Losses of Inner Mongolian Grasslands. Global Biogeochemical Cycles, 2020, 34, e2020GB006559.	4.9	23
24	The Effect of Algal Blooms on Carbon Emissions in Western Lake Erie: An Integration of Remote Sensing and Eddy Covariance Measurements. Remote Sensing, 2017, 9, 44.	4.0	22
25	Long-term variability in the water budget and its controls in an oak-dominated temperate forest. Hydrological Processes, 2014, 28, 6054-6066.	2.6	17
26	Response and biophysical regulation of carbon dioxide fluxes to climate variability and anomaly in contrasting ecosystems in northwestern Ohio, USA. Agricultural and Forest Meteorology, 2016, 220, 50-68.	4.8	17
27	Seasonality in aerodynamic resistance across a range of North American ecosystems. Agricultural and Forest Meteorology, 2021, 310, 108613.	4.8	14
28	The effects of grazing and watering on ecosystem CO2 fluxes vary by community phenology. Environmental Research, 2016, 144, 64-71.	7.5	11
29	Detecting Hot Spots of Methane Flux Using Footprintâ€Weighted Flux Maps. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	11
30	Field Observation of Lateral Detritus Carbon Flux in a Coastal Wetland. Wetlands, 2018, 38, 613-625.	1.5	9
31	Assessing methane emissions for northern peatlands in ORCHIDEE-PEAT revision 7020. Geoscientific Model Development, 2022, 15, 2813-2838.	3.6	8
32	Net primary production in three bioenergy crop systems following land conversion. Journal of Plant Ecology, 2014, 7, 451-460.	2.3	7
33	Intraâ€Annual and Interannual Dynamics of Evaporation Over Western Lake Erie. Earth and Space Science, 2020, 7, e2020EA001091.	2.6	6
34	Hunting Data Rogues at Scale: Data Quality Control for Observational Data in Research Infrastructures. , 2017, , .		4
35	Modeling Spatial Heterogeneity in Surface Turbulent Heat Flux in the U.S. Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032255.	3.3	4