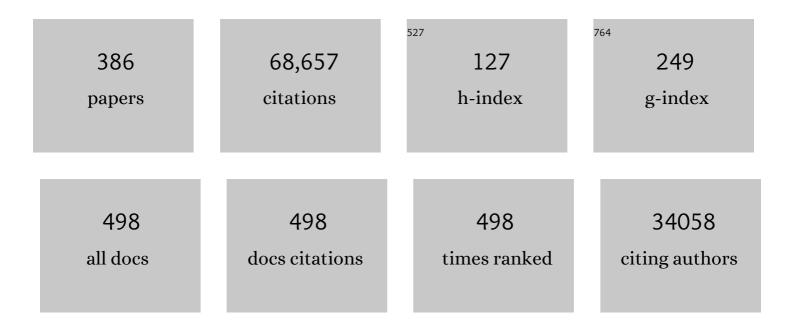
## D D Baldocchi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	FLUXNET: A New Tool to Study the Temporal and Spatial Variability of Ecosystem–Scale Carbon Dioxide, Water Vapor, and Energy Flux Densities. Bulletin of the American Meteorological Society, 2001, 82, 2415-2434.	1.7	3,018
2	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. Global Change Biology, 2005, 11, 1424-1439.	4.2	2,778
3	Terrestrial Gross Carbon Dioxide Uptake: Global Distribution and Covariation with Climate. Science, 2010, 329, 834-838.	6.0	2,056
4	TRY – a global database of plant traits. Global Change Biology, 2011, 17, 2905-2935.	4.2	2,002
5	Assessing the eddy covariance technique for evaluating carbon dioxide exchange rates of ecosystems: past, present and future. Global Change Biology, 2003, 9, 479-492.	4.2	1,937
6	Energy balance closure at FLUXNET sites. Agricultural and Forest Meteorology, 2002, 113, 223-243.	1.9	1,877
7	Gap filling strategies for defensible annual sums of net ecosystem exchange. Agricultural and Forest Meteorology, 2001, 107, 43-69.	1.9	1,579
8	Spatial modelling: a comprehensive framework for principal coordinate analysis of neighbour matrices (PCNM). Ecological Modelling, 2006, 196, 483-493.	1.2	1,572
9	Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation. Agricultural and Forest Meteorology, 2002, 113, 97-120.	1.9	1,133
10	Measuring Biosphere-Atmosphere Exchanges of Biologically Related Gases with Micrometeorological Methods. Ecology, 1988, 69, 1331-1340.	1.5	1,104
11	TRY plant trait database – enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	4.2	1,038
12	'Breathing' of the terrestrial biosphere: lessons learned from a global network of carbon dioxide flux measurement systems. Australian Journal of Botany, 2008, 56, 1.	0.3	966
13	Reconciling Carbon-cycle Concepts, Terminology, and Methods. Ecosystems, 2006, 9, 1041-1050.	1.6	904
14	Intercomparison, interpretation, and assessment of spring phenology in North America estimated from remote sensing for 1982–2006. Global Change Biology, 2009, 15, 2335-2359.	4.2	871
15	Global estimates of the land–atmosphere water flux based on monthly AVHRR and ISLSCP-II data, validated at 16 FLUXNET sites. Remote Sensing of Environment, 2008, 112, 901-919.	4.6	788
16	The carbon balance of tropical, temperate and boreal forests. Plant, Cell and Environment, 1999, 22, 715-740.	2.8	696
17	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	2.4	646
18	A comparison of methods for determining forest evapotranspiration and its components: sap-flow, soil water budget, eddy covariance and catchment water balance. Agricultural and Forest Meteorology, 2001, 106, 153-168.	1.9	626

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19	A Global Terrestrial Monitoring Network Integrating Tower Fluxes, Flask Sampling, Ecosystem Modeling and EOS Satellite Data. Remote Sensing of Environment, 1999, 70, 108-127.	4.6	609
20	Seasonality of ecosystem respiration and gross primary production as derived from FLUXNET measurements. Agricultural and Forest Meteorology, 2002, 113, 53-74.	1.9	606
21	A preliminary multiple resistance routine for deriving dry deposition velocities from measured quantities. Water, Air, and Soil Pollution, 1987, 36, 311-330.	1.1	577
22	Response of a Deciduous Forest to the Mount Pinatubo Eruption: Enhanced Photosynthesis. Science, 2003, 299, 2035-2038.	6.0	566
23	Evaluation of remote sensing based terrestrial productivity from MODIS using regional tower eddy flux network observations. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1908-1925.	2.7	562
24	The future of evapotranspiration: Global requirements for ecosystem functioning, carbon and climate feedbacks, agricultural management, and water resources. Water Resources Research, 2017, 53, 2618-2626.	1.7	552
25	The Boreal Ecosystem–Atmosphere Study (BOREAS): An Overview and Early Results from the 1994 Field Year. Bulletin of the American Meteorological Society, 1995, 76, 1549-1577.	1.7	547
26	Deriving a light use efficiency model from eddy covariance flux data for predicting daily gross primary production across biomes. Agricultural and Forest Meteorology, 2007, 143, 189-207.	1.9	547
27	Biogenic Hydrocarbons in the Atmospheric Boundary Layer: A Review. Bulletin of the American Meteorological Society, 2000, 81, 1537-1575.	1.7	532
28	Advantages of diffuse radiation for terrestrial ecosystem productivity. Journal of Geophysical Research, 2002, 107, ACL 2-1-ACL 2-23.	3.3	518
29	Seasonal variation in carbon dioxide exchange over a Mediterranean annual grassland in California. Agricultural and Forest Meteorology, 2004, 123, 79-96.	1.9	515
30	How plant functional-type, weather, seasonal drought, and soil physical properties alter water and energy fluxes of an oak–grass savanna and an annual grassland. Agricultural and Forest Meteorology, 2004, 123, 13-39.	1.9	504
31	Gap filling strategies for long term energy flux data sets. Agricultural and Forest Meteorology, 2001, 107, 71-77.	1.9	493
32	Arctic and boreal ecosystems of western North America as components of the climate system. Global Change Biology, 2000, 6, 211-223.	4.2	488
33	CO2 Fluxes over Plant Canopies and Solar Radiation: A Review. Advances in Ecological Research, 1995, 26, 1-68.	1.4	460
34	Seasonal trends in photosynthetic parameters and stomatal conductance of blue oak (Quercus) Tj ETQq0 0 0 rg	3T (Qverlo	ck 10 Tf 50 1
35	BOREAS in 1997: Experiment overview, scientific results, and future directions. Journal of Geophysical	3.3	436

36	On using eco-physiological, micrometeorological and biogeochemical theory to evaluate carbon dioxide, water vapor and trace gas fluxes over vegetation: a perspective. Agricultural and Forest	1.	.9	432
	Meteorology, 1998, 90, 1-25.			

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37	Isolating Individual Trees in a Savanna Woodland Using Small Footprint Lidar Data. Photogrammetric Engineering and Remote Sensing, 2006, 72, 923-932.	0.3	431
38	Tree photosynthesis modulates soil respiration on a diurnal time scale. Global Change Biology, 2005, 11, 1298-1304.	4.2	430
39	Microbial soil respiration and its dependency on carbon inputs, soil temperature and moisture. Global Change Biology, 2007, 13, 2018-2035.	4.2	423
40	Temporal and amongâ€site variability of inherent water use efficiency at the ecosystem level. Global Biogeochemical Cycles, 2009, 23, .	1.9	422
41	A canopy stomatal resistance model for gaseous deposition to vegetated surfaces. Atmospheric Environment, 1987, 21, 91-101.	1.1	420
42	Seasonal and interannual variability of energy fluxes over a broadleaved temperate deciduous forest in North America. Agricultural and Forest Meteorology, 2000, 100, 1-18.	1.9	419
43	Strategies for measuring and modelling carbon dioxide and water vapour fluxes over terrestrial ecosystems. Global Change Biology, 1996, 2, 159-168.	4.2	382
44	How soil moisture, rain pulses, and growth alter the response of ecosystem respiration to temperature. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	380
45	CLIMATE: The Terrestrial Carbon Cycle: Implications for the Kyoto Protocol. Science, 1998, 280, 1393-1394.	6.0	378
46	Measuring fluxes of trace gases and energy between ecosystems and the atmosphere – the state and future of the eddy covariance method. Global Change Biology, 2014, 20, 3600-3609.	4.2	377
47	Spatial and seasonal variability of photosynthetic parameters and their relationship to leaf nitrogen in a deciduous forest. Tree Physiology, 2000, 20, 565-578.	1.4	365
48	Scaling carbon dioxide and water vapour exchange from leaf to canopy in a deciduous forest. II. Model testing and application. Plant, Cell and Environment, 1995, 18, 1157-1173.	2.8	364
49	A new model of gross primary productivity for North American ecosystems based solely on the enhanced vegetation index and land surface temperature from MODIS. Remote Sensing of Environment, 2008, 112, 1633-1646.	4.6	364
50	Inter-annual variability in carbon dioxide exchange of an oak/grass savanna and open grassland in California. Agricultural and Forest Meteorology, 2007, 147, 157-171.	1.9	356
51	Land-atmosphere energy exchange in Arctic tundra and boreal forest: available data and feedbacks to climate. Global Change Biology, 2000, 6, 84-115.	4.2	346
52	Integration of MODIS land and atmosphere products with a coupled-process model to estimate gross primary productivity and evapotranspiration from 1 km to global scales. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	1.9	345
53	Correction Of Eddy-Covariance Measurements Incorporating Both Advective Effects And Density Fluxes. Boundary-Layer Meteorology, 2000, 97, 487-511.	1.2	343
54	Warm spring reduced carbon cycle impact of the 2012 US summer drought. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5880-5885.	3.3	340

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55	Measuring and modelling carbon dioxide and water vapour exchange over a temperate broad-leaved forest during the 1995 summer drought. Plant, Cell and Environment, 1997, 20, 1108-1122.	2.8	329
56	Protecting climate with forests. Environmental Research Letters, 2008, 3, 044006.	2.2	313
57	Biophysical considerations in forestry for climate protection. Frontiers in Ecology and the Environment, 2011, 9, 174-182.	1.9	301
58	Modeling CO2 and water vapor exchange of a temperate broadleaved forest across hourly to decadal time scales. Ecological Modelling, 2001, 142, 155-184.	1.2	296
59	Assessing soil CO2 efflux using continuous measurements of CO2 profiles in soils with small solid-state sensors. Agricultural and Forest Meteorology, 2003, 118, 207-220.	1.9	285
60	Comparing nocturnal eddy covariance measurements to estimates of ecosystem respiration made by scaling chamber measurements at six coniferous boreal sites. Journal of Geophysical Research, 1997, 102, 28977-28985.	3.3	277
61	A comparison of six methods for measuring soil-surface carbon dioxide fluxes. Journal of Geophysical Research, 1997, 102, 28771-28777.	3.3	274
62	Seasonal variations of CO2 and water vapour exchange rates over a temperate deciduous forest. Global Change Biology, 1996, 2, 183-197.	4.2	273
63	On the use of MODIS EVI to assess gross primary productivity of North American ecosystems. Journal of Geophysical Research, 2006, 111, .	3.3	267
64	What is global photosynthesis? History, uncertainties and opportunities. Remote Sensing of Environment, 2019, 223, 95-114.	4.6	266
65	Reduction in carbon uptake during turn of the century drought in western North America. Nature Geoscience, 2012, 5, 551-556.	5.4	263
66	Spatial–temporal variation in soil respiration in an oak–grass savanna ecosystem in California and its partitioning into autotrophic and heterotrophic components. Biogeochemistry, 2005, 73, 183-207.	1.7	259
67	On Measuring Net Ecosystem Carbon Exchange Over Tall Vegetation on Complex Terrain. Boundary-Layer Meteorology, 2000, 96, 257-291.	1.2	258
68	Inter-annual variability of net and gross ecosystem carbon fluxes: A review. Agricultural and Forest Meteorology, 2018, 249, 520-533.	1.9	257
69	Linking plant and ecosystem functional biogeography. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13697-13702.	3.3	255
70	Climate and vegetation controls on boreal zone energy exchange. Global Change Biology, 2000, 6, 69-83.	4.2	254
71	Climate and vegetation controls on the surface water balance: Synthesis of evapotranspiration measured across a global network of flux towers. Water Resources Research, 2012, 48, .	1.7	254
72	A comparison of direct and indirect methods for estimating forest canopy leaf area. Agricultural and Forest Meteorology, 1991, 57, 107-128.	1.9	251

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73	Leaf age affects the seasonal pattern of photosynthetic capacityand net ecosystem exchange of carbon in a deciduous forest. Plant, Cell and Environment, 2001, 24, 571-583.	2.8	247
74	Seasonal variation of carbon dioxide exchange rates above and below a boreal jack pine forest. Agricultural and Forest Meteorology, 1997, 83, 147-170.	1.9	243
75	Objective threshold determination for nighttime eddy flux filtering. Agricultural and Forest Meteorology, 2005, 128, 179-197.	1.9	241
76	How to quantify tree leaf area index in an open savanna ecosystem: A multi-instrument and multi-model approach. Agricultural and Forest Meteorology, 2010, 150, 63-76.	1.9	240
77	Agricultural peatland restoration: effects of landâ€use change on greenhouse gas (CO <sub>2</sub> ) Tj ETQq1 1 750-765.	0.784314 4.2	rgBT /Ov€ 235
78	Filtering Airborne Laser Scanning Data with Morphological Methods. Photogrammetric Engineering and Remote Sensing, 2007, 73, 175-185.	0.3	233
79	Seasonal variation of energy and water vapor exchange rates above and below a boreal jack pine forest canopy. Journal of Geophysical Research, 1997, 102, 28939-28951.	3.3	225
80	Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding. Ecosystems, 2000, 3, 115-130.	1.6	225
81	OAK FOREST CARBON AND WATER SIMULATIONS: MODEL INTERCOMPARISONS AND EVALUATIONS AGAINST INDEPENDENT DATA. Ecological Monographs, 2004, 74, 443-489.	2.4	225
82	Estimation of net ecosystem carbon exchange for the conterminous United States by combining MODIS and AmeriFlux data. Agricultural and Forest Meteorology, 2008, 148, 1827-1847.	1.9	221
83	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. Water Resources Research, 2020, 56, e2019WR026058.	1.7	220
84	How eddy covariance flux measurements have contributed to our understanding of <i>Global Change Biology</i> . Global Change Biology, 2020, 26, 242-260.	4.2	216
85	Energy and CO2 flux densities above and below a temperate broad-leaved forest and a boreal pine forest. Tree Physiology, 1996, 16, 5-16.	1.4	211
86	Turbulence structure in a deciduous forest. Boundary-Layer Meteorology, 1988, 43, 345-364.	1.2	210
87	A continuous measure of gross primary production for the conterminous United States derived from MODIS and AmeriFlux data. Remote Sensing of Environment, 2010, 114, 576-591.	4.6	210
88	How the environment, canopy structure and canopy physiological functioning influence carbon, water and energy fluxes of a temperate broad-leaved deciduous forestan assessment with the biophysical model CANOAK. Tree Physiology, 2002, 22, 1065-1077.	1.4	204
89	What the towers don't see at night: nocturnal sap flow in trees and shrubs at two AmeriFlux sites in California. Tree Physiology, 2007, 27, 597-610.	1.4	204
90	Effects of diffuse radiation on canopy gas exchange processes in a forest ecosystem. Journal of Geophysical Research, 2008, 113, .	3.3	204

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91	Eddy fluxes of CO2, water vapor, and sensible heat over a deciduous forest. Boundary-Layer Meteorology, 1986, 36, 71-91.	1.2	201
92	Scaling carbon dioxide and water vapour exchange from leaf to canopy in a deciduous forest. I. Leaf model parametrization. Plant, Cell and Environment, 1995, 18, 1146-1156.	2.8	199
93	A comparative study of mass and energy exchange rates over a closed C3 (wheat) and an open C4 (corn) crop: II. CO2 exchange and water use efficiency. Agricultural and Forest Meteorology, 1994, 67, 291-321.	1.9	197
94	On seeing the wood from the leaves and the role of voxel size in determining leaf area distribution of forests with terrestrial LiDAR. Agricultural and Forest Meteorology, 2014, 184, 82-97.	1.9	196
95	Continuous observation of tree leaf area index at ecosystem scale using upward-pointing digital cameras. Remote Sensing of Environment, 2012, 126, 116-125.	4.6	195
96	On the correct estimation of effective leaf area index: Does it reveal information on clumping effects?. Agricultural and Forest Meteorology, 2010, 150, 463-472.	1.9	186
97	Flux Footprints Within and Over Forest Canopies. Boundary-Layer Meteorology, 1997, 85, 273-292.	1.2	181
98	Trace gas exchange above the floor of a deciduous forest: 1. Evaporation and CO <sub>2</sub> efflux. Journal of Geophysical Research, 1991, 96, 7271-7285.	3.3	180
99	Spatial and temporal variation in respiration in a young ponderosa pine forest during a summer drought. Agricultural and Forest Meteorology, 2001, 110, 27-43.	1.9	174
100	The uncertain climate footprint of wetlands under human pressure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4594-4599.	3.3	171
101	Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. Water Resources Research, 2002, 38, 30-1-30-11.	1.7	169
102	Interannual variability of evapotranspiration and energy exchange over an annual grassland in California. Journal of Geophysical Research, 2008, 113, .	3.3	169
103	A Multi-layer model for estimating sulfur dioxide deposition to a deciduous oak forest canopy. Atmospheric Environment, 1988, 22, 869-884.	1.1	168
104	Greenhouse gas (CO2, CH4, H2O) fluxes from drained and flooded agricultural peatlands in the Sacramento-San Joaquin Delta. Agriculture, Ecosystems and Environment, 2012, 150, 1-18.	2.5	168
105	Predicting the onset of net carbon uptake by deciduous forests with soil temperature and climate data: a synthesis of FLUXNET data. International Journal of Biometeorology, 2005, 49, 377-387.	1.3	167
106	Discerning the forest from the trees: an essay on scaling canopy stomatal conductance. Agricultural and Forest Meteorology, 1991, 54, 197-226.	1.9	163
107	Groundwater uptake by woody vegetation in a semiarid oak savanna. Water Resources Research, 2010, 46, .	1.7	163
108	A multiyear evaluation of a Dynamic Global Vegetation Model at three AmeriFlux forest sites: Vegetation structure, phenology, soil temperature, and CO2 and H2O vapor exchange. Ecological Modelling, 2006, 196, 1-31.	1.2	161

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109	A spectral analysis of biosphere–atmosphere trace gas flux densities and meteorological variables across hour to multi-year time scales. Agricultural and Forest Meteorology, 2001, 107, 1-27.	1.9	160
110	Quantifying stomatal and non-stomatal limitations to carbon assimilation resulting from leaf aging and drought in mature deciduous tree species. Tree Physiology, 2000, 20, 787-797.	1.4	157
111	Assessing net ecosystem carbon exchange of U.S. terrestrial ecosystems by integrating eddy covariance flux measurements and satellite observations. Agricultural and Forest Meteorology, 2011, 151, 60-69.	1.9	157
112	An analytical solution for coupled leaf photosynthesis and stomatal conductance models. Tree Physiology, 1994, 14, 1069-1079.	1.4	154
113	Isoprene fluxes measured by enclosure, relaxed eddy accumulation, surface layer gradient, mixed layer gradient, and mixed layer mass balance techniques. Journal of Geophysical Research, 1996, 101, 18555-18567.	3.3	154
114	Measuring and modelling seasonal variation of carbon dioxide and water vapour exchange of a Pinus ponderosa forest subject to soil water deficit. Global Change Biology, 2000, 6, 613-630.	4.2	154
115	On measuring and modeling energy fluxes above the floor of a homogeneous and heterogeneous conifer forest. Agricultural and Forest Meteorology, 2000, 102, 187-206.	1.9	153
116	Accumulated winter chill is decreasing in the fruit growing regions of California. Climatic Change, 2008, 87, 153-166.	1.7	153
117	The COVID-19 lockdowns: a window into the Earth System. Nature Reviews Earth & Environment, 2020, 1, 470-481.	12.2	153
118	Below-canopy and soil CO2 fluxes in a ponderosa pine forest. Agricultural and Forest Meteorology, 1999, 94, 171-188.	1.9	149
119	Phase and amplitude of ecosystem carbon release and uptake potentials as derived from FLUXNET measurements. Agricultural and Forest Meteorology, 2002, 113, 75-95.	1.9	145
120	Estimating the sensitivity of stomatal conductance to photosynthesis: a review. Plant, Cell and Environment, 2017, 40, 1214-1238.	2.8	145
121	Estimating parameters in a land-surface model by applying nonlinear inversion to eddy covariance flux measurements from eight FLUXNET sites. Global Change Biology, 2007, 13, 652-670.	4.2	144
122	Albedo estimates for land surface models and support for a new paradigm based on foliage nitrogen concentration. Global Change Biology, 2010, 16, 696-710.	4.2	144
123	Multiscale analysis of temporal variability of soil CO <sub>2</sub> production as influenced by weather and vegetation. Global Change Biology, 2010, 16, 1589-1605.	4.2	139
124	Estimation of leaf area index in open-canopy ponderosa pine forests at different successional stages and management regimes in Oregon. Agricultural and Forest Meteorology, 2001, 108, 1-14.	1.9	138
125	Partitioning forest carbon fluxes with overstory and understory eddy-covariance measurements: A synthesis based on FLUXNET data. Agricultural and Forest Meteorology, 2007, 144, 14-31.	1.9	138
126	Transpiration of a boreal pine forest measured by branch bag, sap flow and micrometeorological methods. Tree Physiology, 1997, 17, 511-519.	1.4	136

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127	Global estimation of evapotranspiration using a leaf area index-based surface energy and water balance model. Remote Sensing of Environment, 2012, 124, 581-595.	4.6	136
128	Canopy Radiative Transfer Models for Spherical and Known Leaf Inclination Angle Distributions: A Test in an Oak-Hickory Forest. Journal of Applied Ecology, 1985, 22, 539.	1.9	135
129	Factors controlling evaporation and energy partitioning beneath a deciduous forest over an annual cycle. Agricultural and Forest Meteorology, 2000, 102, 83-103.	1.9	133
130	Biosphere-atmosphere exchange of CO <sub>2</sub> in relation to climate: a cross-biome analysis across multiple time scales. Biogeosciences, 2009, 6, 2297-2312.	1.3	132
131	Frontiers and challenges in soil respiration research: from measurements to model-data integration. Biogeochemistry, 2011, 102, 1-13.	1.7	132
132	Leaf area distribution and radiative transfer in open-canopy forests: implications for mass and energy exchange. Tree Physiology, 2001, 21, 777-787.	1.4	131
133	What limits evaporation from Mediterranean oak woodlands – The supply of moisture in the soil, physiological control by plants or the demand by the atmosphere?. Advances in Water Resources, 2007, 30, 2113-2122.	1.7	131
134	Using data from Landsat, MODIS, VIIRS and PhenoCams to monitor the phenology of California oak/grass savanna and open grassland across spatial scales. Agricultural and Forest Meteorology, 2017, 237-238, 311-325.	1.9	131
135	How switches and lags in biophysical regulators affect spatial-temporal variation of soil respiration in an oak-grass savanna. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	130
136	Estimating Basal Area and Stem Volume for Individual Trees from Lidar Data. Photogrammetric Engineering and Remote Sensing, 2007, 73, 1355-1365.	0.3	130
137	Greenness indices from digital cameras predict the timing and seasonal dynamics of canopyâ€scale photosynthesis. Ecological Applications, 2015, 25, 99-115.	1.8	129
138	On the multiâ€ŧemporal correlation between photosynthesis and soil CO <sub>2</sub> efflux: reconciling lags and observations. New Phytologist, 2011, 191, 1006-1017.	3.5	128
139	Solar radiation within an oak—hickory forest: an evaluation of the extinction coefficients for several radiation components during fully-leafed and leafless periods. Agricultural and Forest Meteorology, 1984, 32, 307-322.	1.9	127
140	A lagrangian random-walk model for simulating water vapor, CO2 and sensible heat flux densities and scalar profiles over and within a soybean canopy. Boundary-Layer Meteorology, 1992, 61, 113-144.	1.2	127
141	Comparing laser-based open- and closed-path gas analyzers to measure methane fluxes using the eddy covariance method. Agricultural and Forest Meteorology, 2011, 151, 1312-1324.	1.9	127
142	The physics and ecology of mining carbon dioxide from the atmosphere by ecosystems. Global Change Biology, 2019, 25, 1191-1197.	4.2	127
143	A spectral and lag-correlation analysis of turbulence in a deciduous forest canopy. Boundary-Layer Meteorology, 1988, 45, 31-58.	1.2	125
144	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. Agricultural and Forest Meteorology, 2021, 301-302, 108350.	1.9	125

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145	On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. Agricultural and Forest Meteorology, 2012, 152, 212-222.	1.9	121
146	Looking deeper into the soil: biophysical controls and seasonal lags of soil CO <sub>2</sub> production and efflux. Ecological Applications, 2010, 20, 1569-1582.	1.8	120
147	Seasonal differences in carbon and water vapor exchange in young and old-growth ponderosa pine ecosystems. Agricultural and Forest Meteorology, 2002, 111, 203-222.	1.9	119
148	The International Soil Moisture Network: serving Earth system science for over a decade. Hydrology and Earth System Sciences, 2021, 25, 5749-5804.	1.9	116
149	Midday values of gross CO2 flux and light use efficiency during satellite overpasses can be used to directly estimate eight-day mean flux. Agricultural and Forest Meteorology, 2005, 131, 1-12.	1.9	114
150	Large Greenhouse Gas Emissions from a Temperate Peatland Pasture. Ecosystems, 2011, 14, 311-325.	1.6	114
151	Fluxes all of the time? A primer on the temporal representativeness of FLUXNET. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 289-307.	1.3	114
152	A comparison of scavenging and deposition processes in global models: results from the WCRP Cambridge Workshop of 1995. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 1025-1056.	0.8	113
153	The challenges of measuring methane fluxes and concentrations over a peatland pasture. Agricultural and Forest Meteorology, 2012, 153, 177-187.	1.9	113
154	Modeling energy and carbon fluxes in a heterogeneous oak woodland: A three-dimensional approach. Agricultural and Forest Meteorology, 2012, 152, 83-100.	1.9	112
155	Biophysical controls on interannual variability in ecosystemâ€scale CO <sub>2</sub> and CH <sub>4</sub> exchange in a California rice paddy. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 978-1001.	1.3	112
156	The Physical Nature of Solar Radiation in Heterogeneous Canopies: Spatial and Temporal Attributes. , 1994, , 21-71.		111
157	On the differential advantages of evergreenness and deciduousness in mediterranean oak woodlands: a flux perspective. Ecological Applications, 2010, 20, 1583-1597.	1.8	109
158	Scaling up flux measurements for the boreal forest using aircraft-tower combinations. Journal of Geophysical Research, 1997, 102, 29125-29133.	3.3	107
159	Gross ecosystem photosynthesis causes a diurnal pattern in methane emission from rice. Geophysical Research Letters, 2012, 39, .	1.5	107
160	Upscaling fluxes from tower to landscape: Overlaying flux footprints on high-resolution (IKONOS) images of vegetation cover. Agricultural and Forest Meteorology, 2006, 136, 132-146.	1.9	99
161	The three major axes of terrestrial ecosystem function. Nature, 2021, 598, 468-472.	13.7	99
162	Widespread inhibition of daytime ecosystem respiration. Nature Ecology and Evolution, 2019, 3, 407-415.	3.4	98

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163	Modelling the discrimination of13CO2above and within a temperate broad-leaved forest canopy on hourly to seasonal time scales. Plant, Cell and Environment, 2003, 26, 231-244.	2.8	97
164	Identifying scaleâ€emergent, nonlinear, asynchronous processes of wetland methane exchange. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 188-204.	1.3	97
165	The use of relaxed eddy accumulation to measure biosphere-atmosphere exchange of isoprene and other biological trace gases. Oecologia, 1998, 116, 306-315.	0.9	96
166	Capâ€filling approaches for eddy covariance methane fluxes: A comparison of three machine learning algorithms and a traditional method with principal component analysis. Global Change Biology, 2020, 26, 1499-1518.	4.2	96
167	Latitudinal patterns of magnitude and interannual variability in net ecosystem exchange regulated by biological and environmental variables. Global Change Biology, 2009, 15, 2905-2920.	4.2	94
168	Application of eddy covariance measurements to the temperature dependence of soil organic matter mean residence time. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	1.9	93
169	Data-driven diagnostics of terrestrial carbon dynamics over North America. Agricultural and Forest Meteorology, 2014, 197, 142-157.	1.9	88
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