Ankur R Desai

List of Publications by Citations

| 183 papers | 9,658 citations | 50 h-index | 94 g-index |
| 250 ext. papers | 11,525 ext. citations | 6.3 avg, IF | 5.71 L-index |

#	Paper	IF	Citations
183	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. *Agricultural and Forest Meteorology*, **2007**, 147, 209-232	5.8	645
182	Terrestrial biosphere models need better representation of vegetation phenology: results from the North American Carbon Program Site Synthesis. *Global Change Biology*, **2012**, 18, 566-584	11.4	481
181	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	8.1	475
180	Effects of biotic disturbances on forest carbon cycling in the United States and Canada. *Global Change Biology*, **2012**, 18, 7-34	11.4	352
179	Global estimates of evapotranspiration and gross primary production based on MODIS and global meteorology data. *Remote Sensing of Environment*, **2010**, 114, 1416-1431	13.2	351
178	Ecosystem carbon dioxide fluxes after disturbance in forests of North America. *Journal of Geophysical Research*, **2010**, 115,		328
177	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. *Scientific Data*, **2020**, 7, 225	8.2	256
176	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		239
175	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, 5880-5	11.5	232
174	Cross-site evaluation of eddy covariance GPP and RE decomposition techniques. *Agricultural and Forest Meteorology*, **2008**, 148, 821-838	5.8	221
173	A model-data intercomparison of CO2 exchange across North America: Results from the North American Carbon Program site synthesis. *Journal of Geophysical Research*, **2010**, 115,		216
172	Comparing net ecosystem exchange of carbon dioxide between an old-growth and mature forest in the upper Midwest, USA. *Agricultural and Forest Meteorology*, **2005**, 128, 33-55	5.8	212
171	Carbon exchange and venting anomalies in an upland deciduous forest in northern Wisconsin, USA. *Agricultural and Forest Meteorology*, **2004**, 126, 271-295	5.8	206
170	Lake-size dependency of wind shear and convection as controls on gas exchange. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	148
169	CO<sub>2</sub>, CO, and CH<sub>4</sub> measurements from tall towers in the NOAA Earth System Research Laboratory's Global Greenhouse Gas Reference Network: instrumentation, uncertainty analysis, and recommendations for future high-accuracy greenhouse gas monitoring efforts. *Atmospheric Measurement Techniques*, **2014**, 7, 647-687	4	147
168	Solar-induced chlorophyll fluorescence is strongly correlated with terrestrial photosynthesis for a wide variety of biomes: First global analysis based on OCO-2 and flux tower observations. *Global Change Biology*, **2018**, 24, 3990-4008	11.4	143
167	The uncertain climate footprint of wetlands under human pressure. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 4594-9	11.5	138

166	Drought and Deforestation: Has Land Cover Change Influenced Recent Precipitation Extremes in the Amazon?. *Journal of Climate*, **2014**, 27, 345-361	4.4	135
165	Integrating aquatic and terrestrial components to construct a complete carbon budget for a north temperate lake district. *Global Change Biology*, **2011**, 17, 1193-1211	11.4	129
164	Albedo estimates for land surface models and support for a new paradigm based on foliage nitrogen concentration. *Global Change Biology*, **2010**, 16, 696-710	11.4	123
163	Remotely estimating photosynthetic capacity, and its response to temperature, in vegetation canopies using imaging spectroscopy. *Remote Sensing of Environment*, **2015**, 167, 78-87	13.2	116
162	Climate control of terrestrial carbon exchange across biomes and continents. *Environmental Research Letters*, **2010**, 5, 034007	6.2	116
161	How is water-use efficiency of terrestrial ecosystems distributed and changing on Earth?. *Scientific Reports*, **2014**, 4, 7483	4.9	113
160	Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. *Global Ecology and Biogeography*, **2013**, 22, 994-1006	6.1	106
159	Stronger winds over a large lake in response to weakening air-to-lake temperature gradient. *Nature Geoscience*, **2009**, 2, 855-858	18.3	100
158	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. *Water Resources Research*, **2020**, 56, e2019WR026058	5.4	98
157	Influence of vegetation and seasonal forcing on carbon dioxide fluxes across the Upper Midwest, USA: Implications for regional scaling. *Agricultural and Forest Meteorology*, **2008**, 148, 288-308	5.8	95
156	Contrasting carbon dioxide fluxes between a drying shrub wetland in Northern Wisconsin, USA, and nearby forests. *Biogeosciences*, **2009**, 6, 1115-1126	4.6	88
155	Sap flux‐upscaled canopy transpiration, stomatal conductance, and water use efficiency in an old growth forest in the Great Lakes region of the United States. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		88
154	Estimating nocturnal ecosystem respiration from the vertical turbulent flux and change in storage of CO2. *Agricultural and Forest Meteorology*, **2009**, 149, 1919-1930	5.8	87
153	The imprint of surface fluxes and transport on variations in total column carbon dioxide. *Biogeosciences*, **2012**, 9, 875-891	4.6	86
152	First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources. *Atmospheric Chemistry and Physics*, **2011**, 11, 10565-10578	6.8	85
151	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. *New Phytologist*, **2012**, 194, 775-783	9.8	81
150	Ecosystem respiration and its components in an old-growth forest in the Great Lakes region of the United States. *Agricultural and Forest Meteorology*, **2008**, 148, 171-185	5.8	81
149	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. *Nature Climate Change*, **2018**, 8, 1092-1096	21.4	80

148	Persistent reduced ecosystem respiration after insect disturbance in high elevation forests. *Ecology Letters*, **2013**, 16, 731-7	10	78
147	FLUXNET-CH4 Synthesis Activity: Objectives, Observations, and Future Directions. *Bulletin of the American Meteorological Society*, **2019**, 100, 2607-2632	6.1	77
146	Data-driven diagnostics of terrestrial carbon dynamics over North America. *Agricultural and Forest Meteorology*, **2014**, 197, 142-157	5.8	73
145	A quantitative assessment of a terrestrial biosphere model's data needs across North American biomes. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 286-300	3.7	73
144	Evaluation of leaf-to-canopy upscaling methodologies against carbon flux data in North America. *Journal of Geophysical Research*, **2012**, 117,		70
143	The AmeriFlux network: A coalition of the willing. *Agricultural and Forest Meteorology*, **2018**, 249, 444-456	6.8	67
142	Climatic and phenological controls on coherent regional interannual variability of carbon dioxide flux in a heterogeneous landscape. *Journal of Geophysical Research*, **2010**, 115,		66
141	CO2 fluxes at northern fens and bogs have opposite responses to inter-annual fluctuations in water table. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	63
140	The value of soil respiration measurements for interpreting and modeling terrestrial carbon cycling. *Plant and Soil*, **2017**, 413, 1-25	4.2	60
139	A primer for data assimilation with ecological models using Markov Chain Monte Carlo (MCMC). *Oecologia*, **2011**, 167, 599-611	2.9	60
138	Relationship between dynamic balance measures and functional performance in community-dwelling elderly people. *Physical Therapy*, **2010**, 90, 748-60	3.3	59
137	Effects of land cover change on moisture availability and potential crop yield in the world's breadbaskets. *Environmental Research Letters*, **2012**, 7, 014009	6.2	57
136	Characterizing the diurnal patterns of errors in the prediction of evapotranspiration by several land-surface models: An NACP analysis. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 1458-1473	3.7	55
135	Using Light-Use and Production Efficiency Models to Predict Photosynthesis and Net Carbon Exchange During Forest Canopy Disturbance. *Ecosystems*, **2008**, 11, 26-44	3.9	54
134	Assessing the near surface sensitivity of SCIAMACHY atmospheric CO_2 retrieved using (FSI) WFM-DOAS. *Atmospheric Chemistry and Physics*, **2007**, 7, 3597-3619	6.8	50
133	Remote sensing of canopy light use efficiency in temperate and boreal forests of North America using MODIS imagery. *Remote Sensing of Environment*, **2012**, 118, 60-72	13.2	47
132	Landscape-level terrestrial methane flux observed from a very tall tower. *Agricultural and Forest Meteorology*, **2015**, 201, 61-75	5.8	46
131	Observed covariance between ecosystem carbon exchange and atmospheric boundary layer dynamics at a site in northern Wisconsin. *Journal of Geophysical Research*, **2004**, 109,		46

130	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake. *Atmospheric Chemistry and Physics*, **2016**, 16, 3711-3726	6.8	45
129	. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 6517-6532	8.1	45
128	Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. *Earth System Science Data*, **2019**, 11, 1263-1289	10.5	45
127	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. *Nature Climate Change*, **2020**, 10, 555-560	21.4	44
126	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. *Agricultural and Forest Meteorology*, **2021**, 301-302, 108350	5.8	43
125	Impact of hydrological variations on modeling of peatland CO2 fluxes: Results from the North American Carbon Program site synthesis. *Journal of Geophysical Research*, **2012**, 117,		42
124	Short-term favorable weather conditions are an important control of interannual variability in carbon and water fluxes. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 2186-2198	3.7	42
123	Upscaling tower-observed turbulent exchange at fine spatio-temporal resolution using environmental response functions. *Agricultural and Forest Meteorology*, **2017**, 232, 10-22	5.8	41
122	Quantifying the effect of forest age in annual net forest carbon balance. *Environmental Research Letters*, **2018**, 13, 124018	6.2	41
121	Direct and indirect climate change effects on carbon dioxide fluxes in a thawing boreal forest-wetland landscape. *Global Change Biology*, **2017**, 23, 3231-3248	11.4	40
120	The potential of carbonyl sulfide as a proxy for gross primary production at flux tower sites. *Journal of Geophysical Research*, **2011**, 116,		40
119	Climatic variability, hydrologic anomaly, and methane emission can turn productive freshwater marshes into net carbon sources. *Global Change Biology*, **2015**, 21, 1165-81	11.4	39
118	Can EVI-derived land-surface phenology be used as a surrogate for phenology of canopy photosynthesis?. *International Journal of Remote Sensing*, **2014**, 35, 1162-1174	3.1	39
117	Moisture sensitivity of ecosystem respiration: Comparison of 14 forest ecosystems in the Upper Great Lakes Region, USA. *Agricultural and Forest Meteorology*, **2008**, 148, 216-230	5.8	38
116	Estimating the net ecosystem exchange for the major forests in the northern United States by integrating MODIS and AmeriFlux data. *Agricultural and Forest Meteorology*, **2012**, 156, 75-84	5.8	35
115	Redefinition and global estimation of basal ecosystem respiration rate. *Global Biogeochemical Cycles*, **2011**, 25, n/a-n/a	5.9	33
114	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO_2, water, and energy fluxes on daily to annual scales. *Geoscientific Model Development*, **2018**, 11, 497-519	6.3	32
113	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. *Global Change Biology*, **2020**, 26, 6916-6930	11.4	31

112	Wetland flux controls: how does interacting water table levels and temperature influence carbon dioxide and methane fluxes in northern Wisconsin?. *Biogeochemistry*, **2018**, 137, 15-25	3.8	30
111	Seasonal pattern of regional carbon balance in the central Rocky Mountains from surface and airborne measurements. *Journal of Geophysical Research*, **2011**, 116,		29
110	Regional carbon fluxes from an observationally constrained dynamic ecosystem model: Impacts of disturbance, CO2 fertilization, and heterogeneous land cover. *Journal of Geophysical Research*, **2007** , 112,		28
109	Assessing Interactions Among Changing Climate, Management, and Disturbance in Forests: A Macrosystems Approach. *BioScience*, **2015**, 65, 263-274	5.7	27
108	eddy4R 0.2.0: a DevOps model for community-extensible processing and analysis of eddy-covariance data based on R, Git, Docker, and HDF5. *Geoscientific Model Development*, **2017**, 10, 3189-3206	6.3	26
107	Biological and physical influences on soil ¹⁴CO₂ seasonal dynamics in a temperate hardwood forest. *Biogeosciences*, **2013**, 10, 7999-8012	4.6	26
106	Influence and predictive capacity of climate anomalies on daily to decadal extremes in canopy photosynthesis. *Photosynthesis Research*, **2014**, 119, 31-47	3.7	25
105	Modelling contrasting responses of wetland productivity to changes in water table depth. *Biogeosciences*, **2012**, 9, 4215-4231	4.6	25
104	Using imaging spectroscopy to detect variation in terrestrial ecosystem productivity across a water-stressed landscape **2018**, 28, 1313-1324		24
103	A Case Study on the Effects of Heterogeneous Soil Moisture on Mesoscale Boundary-Layer Structure in the Southern Great Plains, U.S.A. Part I: Simple Prognostic Model. *Boundary-Layer Meteorology*, **2006**, 119, 195-238	3.4	24
102	Thermal adaptation of net ecosystem exchange. *Biogeosciences*, **2011**, 8, 1453-1463	4.6	23
101	FLUXNET-CH₄: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. *Earth System Science Data*, **2021**, 13, 3607-3689	10.5	23
100	Large Uncertainty in Estimating pCO2 From Carbonate Equilibria in Lakes. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 2909-2924	3.7	22
99	Model-data assimilation of multiple phenological observations to constrain and predict leaf area index **2015**, 25, 546-58		22
98	Partitioning of Net Fluxes **2012**, 263-289		22
97	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. *Global Change Biology*, **2020**, 26, 7268-7283	11.4	22
96	Impact of forest plantation on methane emissions from tropical peatland. *Global Change Biology*, **2020**, 26, 2477	11.4	21
95	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	4.9	21

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94	Climatic controls of interannual variability in regional carbon fluxes from top-down and bottom-up perspectives. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		21
93	A nonparametric method for separating photosynthesis and respiration components in CO2 flux measurements. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	21
92	Interspecific and interannual variation in the duration of spring phenophases in a northern mixed forest. *Agricultural and Forest Meteorology*, **2017**, 243, 55-67	5.8	20
91	Modeling Soil and Biomass Carbon Responses to Declining Water Table in a Wetland-Rich Landscape. *Ecosystems*, **2013**, 16, 491-507	3.9	20
90	Observed variability of Lake Superior pCO2. *Limnology and Oceanography*, **2011**, 56, 775-786	4.8	20
89	A Case Study on the Effects of Heterogeneous Soil Moisture on Mesoscale Boundary-Layer Structure in the Southern Great Plains, U.S.A. Part II: Mesoscale Modelling. *Boundary-Layer Meteorology*, **2006**, 120, 275-314	3.4	19
88	Connecting Land–Atmosphere Interactions to Surface Heterogeneity in CHEESEHEAD19. *Bulletin of the American Meteorological Society*, **2021**, 102, E421-E445	6.1	19
87	A Numerical Case Study of the Implications of Secondary Circulations to the Interpretation of Eddy-Covariance Measurements Over Small Lakes. *Boundary-Layer Meteorology*, **2017**, 165, 311-332	3.4	18
86	Carbon sink and source dynamics of a eutrophic deep lake using multiple flux observations over multiple years. *Limnology and Oceanography Letters*, **2018**, 3, 285-292	7.9	18
85	CO$_2$, CO and CH$_4$ measurements from the NOAA Earth System Research Laboratory's Tall Tower Greenhouse Gas Observing Network: instrumentation, uncertainty analysis and recommendations for future high-accuracy greenhouse gas monitoring efforts **2013**,		18
84	Time dependency of eddy covariance site energy balance. *Agricultural and Forest Meteorology*, **2018**, 249, 467-478	5.8	17
83	Large Spatial and Temporal Variability of Carbon Dioxide and Methane in a Eutrophic Lake. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 2248-2266	3.7	17
82	Quantifying the effects of harvesting on carbon fluxes and stocks in northern temperate forests. *Biogeosciences*, **2014**, 11, 6667-6682	4.6	17
81	Assessing filtering of mountaintop CO$_2$ mole fractions for application to inverse models of biosphere-atmosphere carbon exchange. *Atmospheric Chemistry and Physics*, **2012**, 12, 2099-2115	6.8	17
80	Montane ecosystem productivity responds more to global circulation patterns than climatic trends. *Environmental Research Letters*, **2016**, 11,	6.2	16
79	Solar-induced chlorophyll fluorescence exhibits a universal relationship with gross primary productivity across a wide variety of biomes. *Global Change Biology*, **2019**, 25, e4	11.4	16
78	Seasonal variations in phenology and productivity of a tropical dry deciduous forest from MODIS and Hyperion. *Agricultural and Forest Meteorology*, **2015**, 214-215, 91-105	5.8	15
77	PEAT-CLSM: A Specific Treatment of Peatland Hydrology in the NASA Catchment Land Surface Model. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 2130-2162	7.1	15

76	A Simple, Minimal Parameter Model for Predicting the Influence of Changing Land Cover on the Land–Atmosphere System+. *Earth Interactions*, **2011**, 15, 1-32	1.5	15
75	Beyond ecosystem modeling: A roadmap to community cyberinfrastructure for ecological data-model integration. *Global Change Biology*, **2021**, 27, 13-26	11.4	15
74	Size distribution of particulate matter in runoff from different leaf surfaces during controlled rainfall processes. *Environmental Pollution*, **2019**, 255, 113234	9.3	14
73	Non-invasive hyperspectral imaging approach for fruit quality control application and classification: case study of apple, chikoo, guava fruits. *Journal of Food Science and Technology*, **2015**, 52, 6978-6989	3.3	14
72	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	5.8	14
71	Sustained analgesia achieved through esterase-activated morphine prodrugs complexed with PAMAM dendrimer. *Pharmaceutical Research*, **2013**, 30, 247-56	4.5	14
70	Global transpiration data from sap flow measurements: the SAPFLUXNET database. *Earth System Science Data*, **2021**, 13, 2607-2649	10.5	13
69	Using the red chromatic coordinate to characterize the phenology of forest canopy photosynthesis. *Agricultural and Forest Meteorology*, **2020**, 285-286, 107910	5.8	12
68	Surface-atmosphere exchange in a box: Space-time resolved storage and net vertical fluxes from tower-based eddy covariance. *Agricultural and Forest Meteorology*, **2018**, 255, 81-91	5.8	12
67	The Phenology of Gross Ecosystem Productivity and Ecosystem Respiration in Temperate Hardwood and Conifer Chronosequences **2009**, 59-85		12
66	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. *Global Ecology and Biogeography*, **2019**, 28, 1351-1365	6.1	11
65	The biophysical climate mitigation potential of boreal peatlands during the growing season. *Environmental Research Letters*, **2020**, 15, 104004	6.2	11
64	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. *Global Change Biology*, **2021**, 27, 3582-3604	11.4	11
63	Assessing the interplay between canopy energy balance and photosynthesis with cellulose $\delta^{18}O$: large-scale patterns and independent ground-truthing. *Oecologia*, **2018**, 187, 995-1007	2.9	10
62	Data-based perfect-deficit approach to understanding climate extremes and forest carbon assimilation capacity. *Environmental Research Letters*, **2014**, 9, 065002	6.2	10
61	Substantial hysteresis in emergent temperature sensitivity of global wetland CH_4 emissions. *Nature Communications*, **2021**, 12, 2266	17.4	10
60	Characterization of field-scale soil variation using a stepwise multi-sensor fusion approach and a cost-benefit analysis. *Catena*, **2021**, 201, 105190	5.8	10
59	Conservation slows down emission increase from a tropical peatland in Indonesia. *Nature Geoscience*, **2021**, 14, 484-490	18.3	10

58	Can Data Mining Help Eddy Covariance See the Landscape? A Large-Eddy Simulation Study. *Boundary-Layer Meteorology*, **2020**, 176, 85-103	3.4	10
57	Integrating continuous atmospheric boundary layer and tower-based flux measurements to advance understanding of land-atmosphere interactions. *Agricultural and Forest Meteorology*, **2021**, 307, 108509	5.8	10
56	Comparing in-situ leaf observations in early spring with flux tower CO2 exchange, MODIS EVI and modeled LAI in a northern mixed forest. *Agricultural and Forest Meteorology*, **2019**, 278, 107673	5.8	9
55	Positive impacts of precipitation intensity on monthly CO2 fluxes in North America. *Global and Planetary Change*, **2013**, 100, 204-214	4.2	9
54	Monitoring the seasonal and interannual variation of the carbon sequestration in a temperate deciduous forest with MODIS time series data. *Forest Ecology and Management*, **2013**, 306, 150-160	3.9	9
53	Relationship between Snow Extent and Midlatitude Disturbance Centers. *Journal of Climate*, **2014**, 27, 2971-2982	4.4	9
52	The eddy-covariance storage term in air: Consistent community resources improve flux measurement reliability. *Agricultural and Forest Meteorology*, **2019**, 279, 107734	5.8	8
51	The three major axes of terrestrial ecosystem function. *Nature*, **2021**, 598, 468-472	50.4	8
50	Aircraft-based inversions quantify the importance of wetlands and livestock for Upper Midwest methane emissions. *Atmospheric Chemistry and Physics*, **2021**, 21, 951-971	6.8	7
49	Toward a Social-Ecological Theory of Forest Macrosystems for Improved Ecosystem Management. *Forests*, **2018**, 9, 200	2.8	7
48	Increasing Dairy Sustainability with Integrated Crop‑livestock Farming. *Sustainability*, **2020**, 12, 765	3.6	6
47	Global transpiration data from sap flow measurements: the SAPFLUXNET database		6
46	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. *Science Advances*, **2021**, 7,	14.3	6
45	Trade-Offs in Flux Disaggregation: A Large-Eddy Simulation Study. *Boundary-Layer Meteorology*, **2019**, 170, 69-93	3.4	6
44	Multi-Sensor Approach for High Space and Time Resolution Land Surface Temperature. *Earth and Space Science*, **2021**, 8, e2021EA001842	3.1	6
43	Observations of 14CO2 in ecosystem respiration from a temperate deciduous forest in Northern Wisconsin. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 600-616	3.7	5
42	Soil moisture as an essential component for delineating and forecasting agricultural rather than meteorological drought. *Remote Sensing of Environment*, **2022**, 269, 112833	13.2	5
41	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake		5

40	Modelling contrasting responses of wetland productivity to changes in water table depth		5
39	Evaluation of prediction and forecasting models for evapotranspiration of agricultural lands in the Midwest U.S. *Journal of Hydrology*, **2021**, 600, 126579	6	5
38	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	5.8	5
37	Wind Sheltering Impacts on Land-Atmosphere Fluxes Over Fens. *Frontiers in Environmental Science*, **2019**, 7,	4.8	4
36	Retrieving Heterogeneous Surface Soil Moisture at 100 m Across the Globe via Fusion of Remote Sensing and Land Surface Parameters. *Frontiers in Water*, **2020**, 2,	2.6	4
35	Satellite Determination of Peatland Water Table Temporal Dynamics by Localizing Representative Pixels of A SWIR-Based Moisture Index. *Remote Sensing*, **2020**, 12, 2936	5	4
34	Growth and opportunities in networked synthesis through AmeriFlux. *New Phytologist*, **2019**, 222, 1685-1687	9.6	4
33	The spatial scale dependence of water vapor variability inferred from observations from a very tall tower. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 9822-9837	4.4	4
32	The imprint of surface fluxes and transport on variations in total column carbon dioxide		4
31	Simultaneous Measurements of O3 and HCOOH Vertical Fluxes Indicate Rapid In-Canopy Terpene Chemistry Enhances O3 Removal Over Mixed Temperate Forests. *Geophysical Research Letters*, **2021**, 48, e2020GL090996	4.9	4
30	Evaluation of Low-Cost, Automated Lake Ice Thickness Measurements. *Journal of Atmospheric and Oceanic Technology*, **2019**, 36, 527-534	2	3
29	Comparing Spatial and Temporal Variation of Lake-Atmosphere Carbon Dioxide Fluxes Using Multiple Methods. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005623	3.7	3
28	Synoptic Meteorology Explains Temperate Forest Carbon Uptake. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005476	3.7	3
27	The influence of carbon exchange of a large lake on regional tracer-transport inversions: results from Lake Superior. *Environmental Research Letters*, **2011**, 6, 034016	6.2	3
26	Assessing filtering of mountaintop CO<sub>2</sub> mixing ratios for application to inverse models of biosphere-atmosphere carbon exchange		3
25	The impact of a declining water table on observed carbon fluxes at a northern temperate wetland		3
24	Capturing site-to-site variability through Hierarchical Bayesian calibration of a process-based dynamic vegetation model		3
23	Lake ice measurements from soil water content reflectometer sensors. *Limnology and Oceanography: Methods*, **2016**, 14, 224-230	2.6	3

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22	Seasonality in aerodynamic resistance across a range of North American ecosystems. *Agricultural and Forest Meteorology*, **2021**, 310, 108613	5.8	3
21	FLUXNET-CH4: A global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands		3
20	Carbon Flux Phenology from the Sky: Evaluation for Maize and Soybean. *Journal of Atmospheric and Oceanic Technology*, **2018**, 35, 877-892	2	2
19	The Importance of Spring Mixing in Evaluating Carbon Dioxide and Methane Flux From a Small North-temperate Lake in Wisconsin, USA. *Journal of Geophysical Research G: Biogeosciences*, e2021JG006537	3.7	2
18	Lagged Wetland CH4 Flux Response in a Historically Wet Year. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2021JG006458	3.7	2
17	Novel approach to observing system simulation experiments improves information gain of surface–atmosphere field measurements. *Atmospheric Measurement Techniques*, **2021**, 14, 6929-6954	4	2
16	Geospatial coherence of surface-atmosphere fluxes in the upper Great Lakes region. *Agricultural and Forest Meteorology*, **2020**, 295, 108188	5.8	2
15	Your Science Is Your (Openly Shared) Data. *Eos*, **2016**, 97,	1.5	2
14	BII-Implementation: The causes and consequences of plant biodiversity across scales in a rapidly changing world. *Research Ideas and Outcomes*, 7,	2.5	2
13	Significant Reductions in Crop Yields From Air Pollution and Heat Stress in the United States. *Earth's Future*, **2021**, 9, e2021EF002000	7.9	2
12	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO_2, water and energy fluxes on daily to annual scales **2017**,		1
11	Quantifying Seasonal Patterns in Disparate Environmental Variables Using the PolarMetrics R Package **2017**,		1
10	Biological and physical influences on soil $^{14}CO_2$ seasonal dynamics in a temperate hardwood forest		1
9	Evaluation of a CONUS-wide ECOSTRESS DisALEXI evapotranspiration product. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 1-1	4.7	1
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