

Ankur R Desai

List of Publications by Year in descending order

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Version: 2024-02-01

189
papers

13,497
citations

24978

57
h-index

25716

108
g-index

250
all docs

250
docs citations

250
times ranked

12525
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. <i>Agricultural and Forest Meteorology</i> , 2007, 147, 209-232.	1.9	744
2	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
3	Terrestrial biosphere models need better representation of vegetation phenology: results from the North American Carbon Program site synthesis. <i>Global Change Biology</i> , 2012, 18, 566-584.	4.2	583
4	Evaluation of remote sensing based terrestrial productivity from MODIS using regional tower eddy flux network observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 1908-1925.	2.7	562
5	Global estimates of evapotranspiration and gross primary production based on MODIS and global meteorology data. <i>Remote Sensing of Environment</i> , 2010, 114, 1416-1431.	4.6	475
6	Effects of biotic disturbances on forest carbon cycling in the United States and Canada. <i>Global Change Biology</i> , 2012, 18, 7-34.	4.2	418
7	Ecosystem carbon dioxide fluxes after disturbance in forests of North America. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	395
8	Warm spring reduced carbon cycle impact of the 2012 US summer drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5880-5885.	3.3	340
9	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	274
10	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. <i>Global Change Biology</i> , 2018, 24, 3990-4008.	4.2	264
11	Comparing net ecosystem exchange of carbon dioxide between an old-growth and mature forest in the upper Midwest, USA. <i>Agricultural and Forest Meteorology</i> , 2005, 128, 33-55.	1.9	248
12	Cross-site evaluation of eddy covariance GPP and RE decomposition techniques. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 821-838.	1.9	248
13	A model-data intercomparison of CO ₂ exchange across North America: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	247
14	Carbon exchange and venting anomalies in an upland deciduous forest in northern Wisconsin, USA. <i>Agricultural and Forest Meteorology</i> , 2004, 126, 271-295.	1.9	233
15	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. <i>Water Resources Research</i> , 2020, 56, e2019WR026058.	1.7	220
16	Lake-size dependency of wind shear and convection as controls on gas exchange. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	199
17	CO ₂ , CO, and CH ₄ 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. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 647-687.	1.2	199
18	How is water-use efficiency of terrestrial ecosystems distributed and changing on Earth?. <i>Scientific Reports</i> , 2014, 4, 7483.	1.6	181

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19	The uncertain climate footprint of wetlands under human pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4594-4599.	3.3	171
20	Drought and Deforestation: Has Land Cover Change Influenced Recent Precipitation Extremes in the Amazon?. <i>Journal of Climate</i> , 2014, 27, 345-361.	1.2	160
21	Integrating aquatic and terrestrial components to construct a complete carbon budget for a north temperate lake district. <i>Global Change Biology</i> , 2011, 17, 1193-1211.	4.2	151
22	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. <i>Nature Climate Change</i> , 2018, 8, 1092-1096.	8.1	145
23	Albedo estimates for land surface models and support for a new paradigm based on foliage nitrogen concentration. <i>Global Change Biology</i> , 2010, 16, 696-710.	4.2	144
24	Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. <i>Global Ecology and Biogeography</i> , 2013, 22, 994-1006.	2.7	144
25	The AmeriFlux network: A coalition of the willing. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 444-456.	1.9	140
26	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	2.2	137
27	Remotely estimating photosynthetic capacity, and its response to temperature, in vegetation canopies using imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2015, 167, 78-87.	4.6	137
28	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108350.	1.9	125
29	Stronger winds over a large lake in response to weakening air-to-lake temperature gradient. <i>Nature Geoscience</i> , 2009, 2, 855-858.	5.4	121
30	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	3.5	111
31	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. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	108
32	Influence of vegetation and seasonal forcing on carbon dioxide fluxes across the Upper Midwest, USA: Implications for regional scaling. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 288-308.	1.9	106
33	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020, 10, 555-560.	8.1	106
34	Contrasting carbon dioxide fluxes between a drying shrub wetland in Northern Wisconsin, USA, and nearby forests. <i>Biogeosciences</i> , 2009, 6, 1115-1126.	1.3	101
35	First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10565-10578.	1.9	101
36	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021, 598, 468-472.	13.7	99

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37	The imprint of surface fluxes and transport on variations in total column carbon dioxide. <i>Biogeosciences</i> , 2012, 9, 875-891.	1.3	98
38	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020, 26, 6916-6930.	4.2	97
39	Evaluation of leaf-to-canopy upscaling methodologies against carbon flux data in North America. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	92
40	A quantitative assessment of a terrestrial biosphere model's data needs across North American biomes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 286-300.	1.3	92
41	Ecosystem respiration and its components in an old-growth forest in the Great Lakes region of the United States. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 171-185.	1.9	91
42	Estimating nocturnal ecosystem respiration from the vertical turbulent flux and change in storage of CO ₂ . <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1919-1930.	1.9	91
43	Persistent reduced ecosystem respiration after insect disturbance in high elevation forests. <i>Ecology Letters</i> , 2013, 16, 731-737.	3.0	90
44	Data-driven diagnostics of terrestrial carbon dynamics over North America. <i>Agricultural and Forest Meteorology</i> , 2014, 197, 142-157.	1.9	88
45	The value of soil respiration measurements for interpreting and modeling terrestrial carbon cycling. <i>Plant and Soil</i> , 2017, 413, 1-25.	1.8	81
46	CO ₂ fluxes at northern fens and bogs have opposite responses to interannual fluctuations in water table. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	79
47	FLUXNET-CH ₄ : a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021, 13, 3607-3689.	3.7	79
48	A primer for data assimilation with ecological models using Markov Chain Monte Carlo (MCMC). <i>Oecologia</i> , 2011, 167, 599-611.	0.9	74
49	Climatic and phenological controls on coherent regional interannual variability of carbon dioxide flux in a heterogeneous landscape. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	73
50	Relationship Between Dynamic Balance Measures and Functional Performance in Community-Dwelling Elderly People. <i>Physical Therapy</i> , 2010, 90, 748-760.	1.1	72
51	Effects of land cover change on moisture availability and potential crop yield in the world's breadbaskets. <i>Environmental Research Letters</i> , 2012, 7, 014009.	2.2	69
52	Characterizing the diurnal patterns of errors in the prediction of evapotranspiration by several land surface models: An NACP analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1458-1473.	1.3	69
53	The SMAP Level 4 Carbon Product for Monitoring Ecosystem Land-to-Atmosphere CO ₂ Exchange. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 6517-6532.	2.7	69
54	Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. <i>Earth System Science Data</i> , 2019, 11, 1263-1289.	3.7	69

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55	Quantifying the effect of forest age in annual net forest carbon balance. <i>Environmental Research Letters</i> , 2018, 13, 124018.	2.2	67
56	Using Light-Use and Production Efficiency Models to Predict Photosynthesis and Net Carbon Exchange During Forest Canopy Disturbance. <i>Ecosystems</i> , 2008, 11, 26-44.	1.6	65
57	Direct and indirect climate change effects on carbon dioxide fluxes in a thawing boreal forestâ€“wetland landscape. <i>Global Change Biology</i> , 2017, 23, 3231-3248.	4.2	65
58	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	3.7	65
59	Landscape-level terrestrial methane flux observed from a very tall tower. <i>Agricultural and Forest Meteorology</i> , 2015, 201, 61-75.	1.9	61
60	Short-term favorable weather conditions are an important control of interannual variability in carbon and water fluxes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2186-2198.	1.3	60
61	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. <i>Global Change Biology</i> , 2021, 27, 3582-3604.	4.2	59
62	Upscaling tower-observed turbulent exchange at fine spatio-temporal resolution using environmental response functions. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 10-22.	1.9	57
63	Observed covariance between ecosystem carbon exchange and atmospheric boundary layer dynamics at a site in northern Wisconsin. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	55
64	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3711-3726.	1.9	54
65	Climatic variability, hydrologic anomaly, and methane emission can turn productive freshwater marshes into net carbon sources. <i>Global Change Biology</i> , 2015, 21, 1165-1181.	4.2	53
66	Can EVI-derived land-surface phenology be used as a surrogate for phenology of canopy photosynthesis?. <i>International Journal of Remote Sensing</i> , 2014, 35, 1162-1174.	1.3	52
67	Assessing the near surface sensitivity of SCIAMACHY atmospheric CO ₂ retrieved using (FSI) WFM-DOAS. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3597-3619.	1.9	50
68	Impact of hydrological variations on modeling of peatland CO ₂ fluxes: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
69	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. <i>Global Change Biology</i> , 2020, 26, 7268-7283.	4.2	50
70	Remote sensing of canopy light use efficiency in temperate and boreal forests of North America using MODIS imagery. <i>Remote Sensing of Environment</i> , 2012, 118, 60-72.	4.6	49
71	Moisture sensitivity of ecosystem respiration: Comparison of 14 forest ecosystems in the Upper Great Lakes Region, USA. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 216-230.	1.9	47
72	The potential of carbonyl sulfide as a proxy for gross primary production at flux tower sites. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	46

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73	Beyond ecosystem modeling: A roadmap to community cyberinfrastructure for ecological data-model integration. <i>Global Change Biology</i> , 2021, 27, 13-26.	4.2	44
74	Redefinition and global estimation of basal ecosystem respiration rate. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	43
75	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO ₂ , water, and energy fluxes on daily to annual scales. <i>Geoscientific Model Development</i> , 2018, 11, 497-519.	1.3	43
76	Estimating the net ecosystem exchange for the major forests in the northern United States by integrating MODIS and AmeriFlux data. <i>Agricultural and Forest Meteorology</i> , 2012, 156, 75-84.	1.9	41
77	Wetland flux controls: how does interacting water table levels and temperature influence carbon dioxide and methane fluxes in northern Wisconsin?. <i>Biogeochemistry</i> , 2018, 137, 15-25.	1.7	40
78	PEAT-CLSM: A Specific Treatment of Peatland Hydrology in the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2130-2162.	1.3	40
79	Connecting Land-Atmosphere Interactions to Surface Heterogeneity in CHEESEHEAD19. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E421-E445.	1.7	40
80	Large Uncertainty in Estimating CO_2 From Carbonate Equilibria in Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2909-2924.	1.3	39
81	Large Spatial and Temporal Variability of Carbon Dioxide and Methane in a Eutrophic Lake. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2248-2266.	1.3	39
82	Assessing Interactions Among Changing Climate, Management, and Disturbance in Forests: A Macrosystems Approach. <i>BioScience</i> , 2015, 65, 263-274.	2.2	38
83	Regional carbon fluxes from an observationally constrained dynamic ecosystem model: Impacts of disturbance, CO ₂ fertilization, and heterogeneous land cover. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	36
84	Conservation slows down emission increase from a tropical peatland in Indonesia. <i>Nature Geoscience</i> , 2021, 14, 484-490.	5.4	35
85	Impact of forest plantation on methane emissions from tropical peatland. <i>Global Change Biology</i> , 2020, 26, 2477-2495.	4.2	34
86	Substantial hysteresis in emergent temperature sensitivity of global wetland CH ₄ emissions. <i>Nature Communications</i> , 2021, 12, 2266.	5.8	34
87	Seasonal pattern of regional carbon balance in the central Rocky Mountains from surface and airborne measurements. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	33
88	Partitioning of Net Fluxes. , 2012, , 263-289.		33
89	eddy4R0.2.0: a DevOps model for community-extensible processing and analysis of eddy-covariance data based on R, Git, Docker, and HDF5. <i>Geoscientific Model Development</i> , 2017, 10, 3189-3206.	1.3	33
90	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH ₄ wetlands. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108528.	1.9	33

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91	Using imaging spectroscopy to detect variation in terrestrial ecosystem productivity across a water-stressed landscape. <i>Ecological Applications</i> , 2018, 28, 1313-1324.	1.8	32
92	Modelling contrasting responses of wetland productivity to changes in water table depth. <i>Biogeosciences</i> , 2012, 9, 4215-4231.	1.3	31
93	Influence and predictive capacity of climate anomalies on daily to decadal extremes in canopy photosynthesis. <i>Photosynthesis Research</i> , 2014, 119, 31-47.	1.6	31
94	Temporal Dynamics of Aerodynamic Canopy Height Derived From Eddy Covariance Momentum Flux Data Across North American Flux Networks. <i>Geophysical Research Letters</i> , 2018, 45, 9275-9287.	1.5	31
95	Solar-induced chlorophyll fluorescence exhibits a universal relationship with gross primary productivity across a wide variety of biomes. <i>Global Change Biology</i> , 2019, 25, e4.	4.2	31
96	Integrating continuous atmospheric boundary layer and tower-based flux measurements to advance understanding of land-atmosphere interactions. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108509.	1.9	31
97	The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020, 15, 104004.	2.2	31
98	Soil moisture as an essential component for delineating and forecasting agricultural rather than meteorological drought. <i>Remote Sensing of Environment</i> , 2022, 269, 112833.	4.6	31
99	Thermal adaptation of net ecosystem exchange. <i>Biogeosciences</i> , 2011, 8, 1453-1463.	1.3	30
100	Model-data assimilation of multiple phenological observations to constrain and predict leaf area index. <i>Ecological Applications</i> , 2015, 25, 546-558.	1.8	30
101	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. <i>Boundary-Layer Meteorology</i> , 2006, 119, 195-238.	1.2	29
102	Interspecific and interannual variation in the duration of spring phenophases in a northern mixed forest. <i>Agricultural and Forest Meteorology</i> , 2017, 243, 55-67.	1.9	29
103	Biological and physical influences on soil $\delta^{14}\text{C}$ and $\delta^{13}\text{C}$; CO ₂ seasonal dynamics in a temperate hardwood forest. <i>Biogeosciences</i> , 2013, 10, 7999-8012.	1.3	28
104	Size distribution of particulate matter in runoff from different leaf surfaces during controlled rainfall processes. <i>Environmental Pollution</i> , 2019, 255, 113234.	3.7	28
105	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. <i>Science Advances</i> , 2021, 7, .	4.7	28
106	Climatic controls of interannual variability in regional carbon fluxes from top-down and bottom-up perspectives. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	27
107	Carbon sink and source dynamics of a eutrophic deep lake using multiple flux observations over multiple years. <i>Limnology and Oceanography Letters</i> , 2018, 3, 285-292.	1.6	27
108	Using the red chromatic coordinate to characterize the phenology of forest canopy photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2020, 285-286, 107910.	1.9	27

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109	Observed variability of Lake Superior pCO ₂ . <i>Limnology and Oceanography</i> , 2011, 56, 775-786.	1.6	26
110	Characterization of field-scale soil variation using a stepwise multi-sensor fusion approach and a cost-benefit analysis. <i>Catena</i> , 2021, 201, 105190.	2.2	26
111	A Numerical Case Study of the Implications of Secondary Circulations to the Interpretation of Eddy-Covariance Measurements Over Small Lakes. <i>Boundary-Layer Meteorology</i> , 2017, 165, 311-332.	1.2	24
112	Time dependency of eddy covariance site energy balance. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 467-478.	1.9	23
113	Modeling Soil and Biomass Carbon Responses to Declining Water Table in a Wetland-Rich Landscape. <i>Ecosystems</i> , 2013, 16, 491-507.	1.6	22
114	Non-invasive hyperspectral imaging approach for fruit quality control application and classification: case study of apple, chikoo, guava fruits. <i>Journal of Food Science and Technology</i> , 2015, 52, 6978-6989.	1.4	22
115	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019, 28, 1351-1365.	2.7	22
116	A nonparametric method for separating photosynthesis and respiration components in CO ₂ flux measurements. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	21
117	Evaluation of prediction and forecasting models for evapotranspiration of agricultural lands in the Midwest U.S. <i>Journal of Hydrology</i> , 2021, 600, 126579.	2.3	21
118	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. <i>Boundary-Layer Meteorology</i> , 2006, 120, 275-314.	1.2	20
119	Assessing filtering of mountaintop CO ₂ mole fractions for application to inverse models of biosphere-atmosphere carbon exchange. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2099-2115.	1.9	20
120	Seasonal variations in phenology and productivity of a tropical dry deciduous forest from MODIS and Hyperion. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 91-105.	1.9	20
121	Montane ecosystem productivity responds more to global circulation patterns than climatic trends. <i>Environmental Research Letters</i> , 2016, 11, 024013.	2.2	19
122	Surface-atmosphere exchange in a box: Space-time resolved storage and net vertical fluxes from tower-based eddy covariance. <i>Agricultural and Forest Meteorology</i> , 2018, 255, 81-91.	1.9	19
123	Quantifying the effects of harvesting on carbon fluxes and stocks in northern temperate forests. <i>Biogeosciences</i> , 2014, 11, 6667-6682.	1.3	18
124	Significant Reductions in Crop Yields From Air Pollution and Heat Stress in the United States. <i>Earth's Future</i> , 2021, 9, e2021EF002000.	2.4	18
125	Response and biophysical regulation of carbon dioxide fluxes to climate variability and anomaly in contrasting ecosystems in northwestern Ohio, USA. <i>Agricultural and Forest Meteorology</i> , 2016, 220, 50-68.	1.9	17
126	Comparing in-situ leaf observations in early spring with flux tower CO ₂ exchange, MODIS EVI and modeled LAI in a northern mixed forest. <i>Agricultural and Forest Meteorology</i> , 2019, 278, 107673.	1.9	17

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127	A Simple, Minimal Parameter Model for Predicting the Influence of Changing Land Cover on the Land-Atmosphere System+. <i>Earth Interactions</i> , 2011, 15, 1-32.	0.7	16
128	Sustained Analgesia Achieved Through Esterase-Activated Morphine Prodrugs Complexed with PAMAM Dendrimer. <i>Pharmaceutical Research</i> , 2013, 30, 247-256.	1.7	16
129	Satellite Determination of Peatland Water Table Temporal Dynamics by Localizing Representative Pixels of A SWIR-Based Moisture Index. <i>Remote Sensing</i> , 2020, 12, 2936.	1.8	16
130	Can Data Mining Help Eddy Covariance See the Landscape? A Large-Eddy Simulation Study. <i>Boundary-Layer Meteorology</i> , 2020, 176, 85-103.	1.2	15
131	Aircraft-based inversions quantify the importance of wetlands and livestock for Upper Midwest methane emissions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 951-971.	1.9	14
132	Multi-Sensor Approach for High Space and Time Resolution Land Surface Temperature. <i>Earth and Space Science</i> , 2021, 8, e2021EA001842.	1.1	14
133	Seasonality in aerodynamic resistance across a range of North American ecosystems. <i>Agricultural and Forest Meteorology</i> , 2021, 310, 108613.	1.9	14
134	The Phenology of Gross Ecosystem Productivity and Ecosystem Respiration in Temperate Hardwood and Conifer Chronosequences. , 2009, , 59-85.		14
135	Data-based perfect-deficit approach to understanding climate extremes and forest carbon assimilation capacity. <i>Environmental Research Letters</i> , 2014, 9, 065002.	2.2	13
136	Relationship between Snow Extent and Midlatitude Disturbance Centers. <i>Journal of Climate</i> , 2014, 27, 2971-2982.	1.2	13
137	Assessing the interplay between canopy energy balance and photosynthesis with cellulose $\delta^{18}O$: large-scale patterns and independent ground-truthing. <i>Oecologia</i> , 2018, 187, 995-1007.	0.9	13
138	The eddy-covariance storage term in air: Consistent community resources improve flux measurement reliability. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107734.	1.9	13
139	Trade-Offs in Flux Disaggregation: A Large-Eddy Simulation Study. <i>Boundary-Layer Meteorology</i> , 2019, 170, 69-93.	1.2	13
140	Increasing Dairy Sustainability with Integrated Crop-Livestock Farming. <i>Sustainability</i> , 2020, 12, 765.	1.6	13
141	Monitoring the seasonal and interannual variation of the carbon sequestration in a temperate deciduous forest with MODIS time series data. <i>Forest Ecology and Management</i> , 2013, 306, 150-160.	1.4	12
142	Positive impacts of precipitation intensity on monthly CO ₂ fluxes in North America. <i>Global and Planetary Change</i> , 2013, 100, 204-214.	1.6	11
143	Retrieving Heterogeneous Surface Soil Moisture at 100 m Across the Globe via Fusion of Remote Sensing and Land Surface Parameters. <i>Frontiers in Water</i> , 2020, 2, .	1.0	11
144	Simultaneous Measurements of O ₃ and HCOOH Vertical Fluxes Indicate Rapid In-Canopy Terpene Chemistry Enhances O ₃ Removal Over Mixed Temperate Forests. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090996.	1.5	11

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145	Cluster-enhanced Ensemble Learning for Mapping Global Monthly Surface Ozone From 2003 to 2019. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	10
146	Unraveling Forest Complexity: Resource Use Efficiency, Disturbance, and the Structure-Function Relationship. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	10
147	Toward a Social-Ecological Theory of Forest Macrosystems for Improved Ecosystem Management. <i>Forests</i> , 2018, 9, 200.	0.9	9
148	Wind Sheltering Impacts on Land-Atmosphere Fluxes Over Fens. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	8
149	Comparing Spatial and Temporal Variation of Lake-Atmosphere Carbon Dioxide Fluxes Using Multiple Methods. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005623.	1.3	8
150	Observations of $^{14}\text{CO}_2$ in ecosystem respiration from a temperate deciduous forest in Northern Wisconsin. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 600-616.	1.3	7
151	The Importance of Spring Mixing in Evaluating Carbon Dioxide and Methane Flux From a Small North-Temperate Lake in Wisconsin, United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006537.	1.3	7
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