

Ankur R Desai

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Soil moisture as an essential component for delineating and forecasting agricultural rather than meteorological drought. <i>Remote Sensing of Environment</i> , 2022 , 269, 112833	13.2	5
182	How High to Fly? Mapping Evapotranspiration from Remotely Piloted Aircrafts at Different Elevations. <i>Remote Sensing</i> , 2022 , 14, 1660	5	0
181	Evaluation of Satellite-Derived Signatures for Three Verified Hailstorms in Central Argentina. <i>Meteorology</i> , 2022 , 1, 183-210		1
180	Cluster-Enhanced Ensemble Learning for Mapping Global Monthly Surface Ozone From 2003 to 2019. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0
179	Lagged Wetland CH ₄ Flux Response in a Historically Wet Year. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006458	3.7	2
178	Novel approach to observing system simulation experiments improves information gain of surface atmosphere field measurements. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6929-6954	4	2
177	Substantial hysteresis in emergent temperature sensitivity of global wetland CH emissions. <i>Nature Communications</i> , 2021 , 12, 2266	17.4	10
176	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. <i>Science Advances</i> , 2021 , 7,	14.3	6
175	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021 , 301-302, 108350	5.8	43
174	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. <i>Global Change Biology</i> , 2021 , 27, 3582-3604	11.4	11
173	Characterization of field-scale soil variation using a stepwise multi-sensor fusion approach and a cost-benefit analysis. <i>Catena</i> , 2021 , 201, 105190	5.8	10
172	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021 , 13, 2607-2649	10.5	13
171	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	10.5	23
170	Conservation slows down emission increase from a tropical peatland in Indonesia. <i>Nature Geoscience</i> , 2021 , 14, 484-490	18.3	10
169	Beyond ecosystem modeling: A roadmap to community cyberinfrastructure for ecological data-model integration. <i>Global Change Biology</i> , 2021 , 27, 13-26	11.4	15
168	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	4.9	4
167	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	6.8	7

166	Evaluation of a CONUS-wide ECOSTRESS DisALEXI evapotranspiration product. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 1-1	4.7	1
165	Connecting Land-Atmosphere Interactions to Surface Heterogeneity in CHEESEHEAD19. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E421-E445	6.1	19
164	Significant Reductions in Crop Yields From Air Pollution and Heat Stress in the United States. <i>Earth's Future</i> , 2021 , 9, e2021EF002000	7.9	2
163	Evaluation of prediction and forecasting models for evapotranspiration of agricultural lands in the Midwest U.S. <i>Journal of Hydrology</i> , 2021 , 600, 126579	6	5
162	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	5.8	10
161	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021 , 598, 468-472	50.4	8
160	Multi-Sensor Approach for High Space and Time Resolution Land Surface Temperature. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001842	3.1	6
159	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH4 wetlands. <i>Agricultural and Forest Meteorology</i> , 2021 , 308-309, 108528	5.8	5
158	Seasonality in aerodynamic resistance across a range of North American ecosystems. <i>Agricultural and Forest Meteorology</i> , 2021 , 310, 108613	5.8	3
157	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	3.7	3
156	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,	2.6	4
155	Forest Drought Response Index (ForDRI): A New Combined Model to Monitor Forest Drought in the Eastern United States. <i>Remote Sensing</i> , 2020 , 12, 3605	5	0
154	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	5	4
153	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020 , 10, 555-560	21.4	44
152	Increasing Dairy Sustainability with Integrated Crop-Livestock Farming. <i>Sustainability</i> , 2020 , 12, 765	3.6	6
151	Impact of forest plantation on methane emissions from tropical peatland. <i>Global Change Biology</i> , 2020 , 26, 2477	11.4	21
150	Synoptic Meteorology Explains Temperate Forest Carbon Uptake. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005476	3.7	3
149	Using the red chromatic coordinate to characterize the phenology of forest canopy photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2020 , 285-286, 107910	5.8	12

148	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. <i>Water Resources Research</i> , 2020 , 56, e2019WR026058	5.4	98
147	Automated Integration of Continental-Scale Observations in Near-Real Time for Simulation and Analysis of Biosphere-Atmosphere Interactions. <i>Communications in Computer and Information Science</i> , 2020 , 204-225	0.3	
146	Diagnosing the Influence of a Receding Snow Boundary on Simulated Midlatitude Cyclones Using Piecewise Potential Vorticity Inversion. <i>Monthly Weather Review</i> , 2020 , 148, 4479-4495	2.4	
145	Geospatial coherence of surface-atmosphere fluxes in the upper Great Lakes region. <i>Agricultural and Forest Meteorology</i> , 2020 , 295, 108188	5.8	2
144	The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020 , 15, 104004	6.2	11
143	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020 , 26, 6916-6930	11.4	31
142	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	11.4	22
141	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225	8.2	256
140	Can Data Mining Help Eddy Covariance See the Landscape? A Large-Eddy Simulation Study. <i>Boundary-Layer Meteorology</i> , 2020 , 176, 85-103	3.4	10
139	Wind Sheltering Impacts on Land-Atmosphere Fluxes Over Fens. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	4
138	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	5.8	9
137	Size distribution of particulate matter in runoff from different leaf surfaces during controlled rainfall processes. <i>Environmental Pollution</i> , 2019 , 255, 113234	9.3	14
136	Evaluation of Low-Cost, Automated Lake Ice Thickness Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019 , 36, 527-534	2	3
135	Growth and opportunities in networked synthesis through AmeriFlux. <i>New Phytologist</i> , 2019 , 222, 1685-1687	16.8	4
134	FLUXNET-CH ₄ Synthesis Activity: Objectives, Observations, and Future Directions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2607-2632	6.1	77
133	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1351-1365	6.1	11
132	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	3.7	17
131	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	7.1	15

130	The eddy-covariance storage term in air: Consistent community resources improve flux measurement reliability. <i>Agricultural and Forest Meteorology</i> , 2019 , 279, 107734	5.8	8
129	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	10.5	45
128	Trade-Offs in Flux Disaggregation: A Large-Eddy Simulation Study. <i>Boundary-Layer Meteorology</i> , 2019 , 170, 69-93	3.4	6
127	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	11.4	16
126	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	7.9	18
125	Carbon Flux Phenology from the Sky: Evaluation for Maize and Soybean. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018 , 35, 877-892	2	2
124	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	3.8	30
123	The AmeriFlux network: A coalition of the willing. <i>Agricultural and Forest Meteorology</i> , 2018 , 249, 444-456	6.8	67
122	Using imaging spectroscopy to detect variation in terrestrial ecosystem productivity across a water-stressed landscape 2018 , 28, 1313-1324		24
121	Time dependency of eddy covariance site energy balance. <i>Agricultural and Forest Meteorology</i> , 2018 , 249, 467-478	5.8	17
120	Assessing the interplay between canopy energy balance and photosynthesis with cellulose $\delta^{13}C$: large-scale patterns and independent ground-truthing. <i>Oecologia</i> , 2018 , 187, 995-1007	2.9	10
119	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	11.4	143
118	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	4.9	21
117	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	5.8	12
116	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. <i>Nature Climate Change</i> , 2018 , 8, 1092-1096	21.4	80
115	Toward a Social-Ecological Theory of Forest Macrosystems for Improved Ecosystem Management. <i>Forests</i> , 2018 , 9, 200	2.8	7
114	Quantifying the effect of forest age in annual net forest carbon balance. <i>Environmental Research Letters</i> , 2018 , 13, 124018	6.2	41
113	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	6.3	32

112	Direct and indirect climate change effects on carbon dioxide fluxes in a thawing boreal forest-wetland landscape. <i>Global Change Biology</i> , 2017 , 23, 3231-3248	11.4	40
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	3.4	18
110	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	5.8	20
109	Large Uncertainty in Estimating pCO ₂ From Carbonate Equilibria in Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 2909-2924	3.7	22
108	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO ₂ and energy fluxes on daily to annual scales 2017 ,		1
107	eddy4R 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	6.3	26
106	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 6517-6532	8.1	45
105	The value of soil respiration measurements for interpreting and modeling terrestrial carbon cycling. <i>Plant and Soil</i> , 2017 , 413, 1-25	4.2	60
104	Upscaling tower-observed turbulent exchange at fine spatio-temporal resolution using environmental response functions. <i>Agricultural and Forest Meteorology</i> , 2017 , 232, 10-22	5.8	41
103	Quantifying Seasonal Patterns in Disparate Environmental Variables Using the PolarMetrics R Package 2017 ,		1
102	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3711-3726	6.8	45
101	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	5.8	14
100	Your Science Is Your (Openly Shared) Data. <i>Eos</i> , 2016 , 97,	1.5	2
99	Montane ecosystem productivity responds more to global circulation patterns than climatic trends. <i>Environmental Research Letters</i> , 2016 , 11,	6.2	16
98	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	3.7	42
97	Lake ice measurements from soil water content reflectometer sensors. <i>Limnology and Oceanography: Methods</i> , 2016 , 14, 224-230	2.6	3
96	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, 5880-5	11.5	232
95	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	3.3	14

94	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, 4594-9	11.5	138
93	Assessing Interactions Among Changing Climate, Management, and Disturbance in Forests: A Macrosystems Approach. <i>BioScience</i> , 2015 , 65, 263-274	5.7	27
92	Climatic variability, hydrologic anomaly, and methane emission can turn productive freshwater marshes into net carbon sources. <i>Global Change Biology</i> , 2015 , 21, 1165-81	11.4	39
91	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	13.2	116
90	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	5.8	15
89	Landscape-level terrestrial methane flux observed from a very tall tower. <i>Agricultural and Forest Meteorology</i> , 2015 , 201, 61-75	5.8	46
88	Observations of ¹⁴ C in ecosystem respiration from a temperate deciduous forest in Northern Wisconsin. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 600-616	3.7	5
87	Model-data assimilation of multiple phenological observations to constrain and predict leaf area index 2015 , 25, 546-58		22
86	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	3.1	39
85	Data-driven diagnostics of terrestrial carbon dynamics over North America. <i>Agricultural and Forest Meteorology</i> , 2014 , 197, 142-157	5.8	73
84	Drought and Deforestation: Has Land Cover Change Influenced Recent Precipitation Extremes in the Amazon?. <i>Journal of Climate</i> , 2014 , 27, 345-361	4.4	135
83	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	3.7	73
82	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	3.7	55
81	The spatial scale dependence of water vapor variability inferred from observations from a very tall tower. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9822-9837	4.4	4
80	How is water-use efficiency of terrestrial ecosystems distributed and changing on Earth?. <i>Scientific Reports</i> , 2014 , 4, 7483	4.9	113
79	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	4	147
78	Quantifying the effects of harvesting on carbon fluxes and stocks in northern temperate forests. <i>Biogeosciences</i> , 2014 , 11, 6667-6682	4.6	17
77	Comparison of multiple models for remote sensing of carbon exchange using MODIS data in conifer-dominated forests. <i>International Journal of Remote Sensing</i> , 2014 , 35, 8252-8271	3.1	

76	Data-based perfect-deficit approach to understanding climate extremes and forest carbon assimilation capacity. <i>Environmental Research Letters</i> , 2014 , 9, 065002	6.2	10
75	Relationship between Snow Extent and Midlatitude Disturbance Centers. <i>Journal of Climate</i> , 2014 , 27, 2971-2982	4.4	9
74	Influence and predictive capacity of climate anomalies on daily to decadal extremes in canopy photosynthesis. <i>Photosynthesis Research</i> , 2014 , 119, 31-47	3.7	25
73	Persistent reduced ecosystem respiration after insect disturbance in high elevation forests. <i>Ecology Letters</i> , 2013 , 16, 731-7	10	78
72	Sustained analgesia achieved through esterase-activated morphine prodrugs complexed with PAMAM dendrimer. <i>Pharmaceutical Research</i> , 2013 , 30, 247-56	4.5	14
71	Positive impacts of precipitation intensity on monthly CO ₂ fluxes in North America. <i>Global and Planetary Change</i> , 2013 , 100, 204-214	4.2	9
70	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	3.9	9
69	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	6.1	106
68	Modeling Soil and Biomass Carbon Responses to Declining Water Table in a Wetland-Rich Landscape. <i>Ecosystems</i> , 2013 , 16, 491-507	3.9	20
67	CO ₂ 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
66	Biological and physical influences on soil ¹⁴ C/CO ₂ seasonal dynamics in a temperate hardwood forest. <i>Biogeosciences</i> , 2013 , 10, 7999-8012	4.6	26
65	Partitioning of Net Fluxes 2012 , 263-289		22
64	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	13.2	47
63	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012 , 194, 775-783	9.8	81
62	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	5.8	35
61	Evaluation of leaf-to-canopy upscaling methodologies against carbon flux data in North America. <i>Journal of Geophysical Research</i> , 2012 , 117,		70
60	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,		42
59	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, n/a-n/a		239

58	Lake-size dependency of wind shear and convection as controls on gas exchange. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	148
57	The imprint of surface fluxes and transport on variations in total column carbon dioxide. <i>Biogeosciences</i> , 2012 , 9, 875-891	4.6	86
56	Modelling contrasting responses of wetland productivity to changes in water table depth. <i>Biogeosciences</i> , 2012 , 9, 4215-4231	4.6	25
55	Effects of biotic disturbances on forest carbon cycling in the United States and Canada. <i>Global Change Biology</i> , 2012 , 18, 7-34	11.4	352
54	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	11.4	481
53	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	6.2	57
52	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	6.8	17
51	Redefinition and global estimation of basal ecosystem respiration rate. <i>Global Biogeochemical Cycles</i> , 2011 , 25, n/a-n/a	5.9	33
50	Seasonal pattern of regional carbon balance in the central Rocky Mountains from surface and airborne measurements. <i>Journal of Geophysical Research</i> , 2011 , 116,		29
49	The potential of carbonyl sulfide as a proxy for gross primary production at flux tower sites. <i>Journal of Geophysical Research</i> , 2011 , 116,		40
48	Thermal adaptation of net ecosystem exchange. <i>Biogeosciences</i> , 2011 , 8, 1453-1463	4.6	23
47	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	6.8	85
46	Observed variability of Lake Superior pCO ₂ . <i>Limnology and Oceanography</i> , 2011 , 56, 775-786	4.8	20
45	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	11.4	129
44	A primer for data assimilation with ecological models using Markov Chain Monte Carlo (MCMC). <i>Oecologia</i> , 2011 , 167, 599-611	2.9	60
43	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	1.5	15
42	The influence of carbon exchange of a large lake on regional tracer-transport inversions: results from Lake Superior. <i>Environmental Research Letters</i> , 2011 , 6, 034016	6.2	3
41	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	11.4	123

40	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010 , 5, 034007	6.2	116
39	Relationship between dynamic balance measures and functional performance in community-dwelling elderly people. <i>Physical Therapy</i> , 2010 , 90, 748-60	3.3	59
38	Climatic controls of interannual variability in regional carbon fluxes from top-down and bottom-up perspectives. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		21
37	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,		216
36	CO ₂ fluxes at northern fens and bogs have opposite responses to inter-annual fluctuations in water table. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	63
35	Ecosystem carbon dioxide fluxes after disturbance in forests of North America. <i>Journal of Geophysical Research</i> , 2010 , 115,		328
34	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,		66
33	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	13.2	351
32	Contrasting carbon dioxide fluxes between a drying shrub wetland in Northern Wisconsin, USA, and nearby forests. <i>Biogeosciences</i> , 2009 , 6, 1115-1126	4.6	88
31	Parameter sensitivity analysis of disk drive head load control system. <i>Microsystem Technologies</i> , 2009 , 15, 1657-1662	1.7	
30	Stronger winds over a large lake in response to weakening air-to-lake temperature gradient. <i>Nature Geoscience</i> , 2009 , 2, 855-858	18.3	100
29	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	5.8	87
28	The Phenology of Gross Ecosystem Productivity and Ecosystem Respiration in Temperate Hardwood and Conifer Chronosequences 2009 , 59-85		12
27	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	5.8	95
26	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	5.8	38
25	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	5.8	81
24	Cross-site evaluation of eddy covariance GPP and RE decomposition techniques. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 821-838	5.8	221
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10	Assessing filtering of mountaintop CO ₂ mixing ratios for application to inverse models of biosphere-atmosphere carbon exchange		3
9	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake		5
8	Biological and physical influences on soil ¹⁴ C-CO ₂ seasonal dynamics in a temperate hardwood forest		1
7	The impact of a declining water table on observed carbon fluxes at a northern temperate wetland		3
6	The imprint of surface fluxes and transport on variations in total column carbon dioxide		4
5	Modelling contrasting responses of wetland productivity to changes in water table depth		5

4	Global transpiration data from sap flow measurements: the SAPFLUXNET database	6
3	Capturing site-to-site variability through Hierarchical Bayesian calibration of a process-based dynamic vegetation model	3
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1	FLUXNET-CH4: A global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands	3