Andrew D Richardson

List of Publications by Year in Descending Order

249 papers	28,795 citations	87 h-index	167 g-index
263 ext. papers	33,256 ext. citations	8.1 avg, IF	6.97 L-index

#	Paper	IF	Citations
249	Advancing Cross-Disciplinary Understanding of Land-Atmosphere Interactions. *Journal of Geophysical Research G: Biogeosciences*, **2022**, 127,	3.7	3
248	Open data facilitate resilience in science during the COVID-19 pandemic.. *Frontiers in Ecology and the Environment*, **2022**, 20, 76-77	5.5	0
247	Gross primary production (GPP) and red solar induced fluorescence (SIF) respond differently to light and seasonal environmental conditions in a subalpine conifer forest. *Agricultural and Forest Meteorology*, **2022**, 317, 108904	5.8	0
246	Senescence in temperate broadleaf trees exhibits species-specific dependence on photoperiod versus thermal forcing. *Agricultural and Forest Meteorology*, **2022**, 322, 109026	5.8	0
245	Photoperiod decelerates the advance of spring phenology of six deciduous tree species under climate warming. *Global Change Biology*, **2021**, 27, 2914-2927	11.4	5
244	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. *Agricultural and Forest Meteorology*, **2021**, 301-302, 108350	5.8	43
243	Manipulating phloem transport affects wood formation but not local nonstructural carbon reserves in an evergreen conifer. *Plant, Cell and Environment*, **2021**, 44, 2506-2521	8.4	0
242	Using time series of MODIS land surface phenology to model temperature and photoperiod controls on spring greenup in North American deciduous forests. *Remote Sensing of Environment*, **2021**, 260, 112466	13.2	8
241	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
240	Seasonal variation in the canopy color of temperate evergreen conifer forests. *New Phytologist*, **2021**, 229, 2586-2600	9.8	9
239	Developmental changes in the reflectance spectra of temperate deciduous tree leaves and implications for thermal emissivity and leaf temperature. *New Phytologist*, **2021**, 229, 791-804	9.8	5
238	Peak radial growth of diffuse-porous species occurs during periods of lower water availability than for ring-porous and coniferous trees. *Tree Physiology*, **2021**,	4.2	2
237	Multi-Decadal Carbon Cycle Measurements Indicate Resistance to External Drivers of Change at the Howland Forest AmeriFlux Site. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2021JG006276	3.7	1
236	A model-independent data assimilation (MIDA) module and its applications in ecology. *Geoscientific Model Development*, **2021**, 14, 5217-5238	6.3	0
235	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
234	Evaluation and modification of ELM seasonal deciduous phenology against observations in a southern boreal peatland forest. *Agricultural and Forest Meteorology*, **2021**, 308-309, 108556	5.8	1
233	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

232	Seasonality in aerodynamic resistance across a range of North American ecosystems. *Agricultural and Forest Meteorology*, **2021**, 310, 108613	5.8	3
231	PS3: The Pheno-Synthesis software suite for integration and analysis of multi-scale, multi-platform phenological data. *Ecological Informatics*, **2021**, 65, 101400	4.2	1
230	Monitoring agroecosystem productivity and phenology at a national scale: A metric assessment framework. *Ecological Indicators*, **2021**, 131, 108147	5.8	3
229	Multiscale assessment of land surface phenology from harmonized Landsat 8 and Sentinel-2, PlanetScope, and PhenoCam imagery. *Remote Sensing of Environment*, **2021**, 266, 112716	13.2	13
228	Forest Drought Response Index (ForDRI): A New Combined Model to Monitor Forest Drought in the Eastern United States. *Remote Sensing*, **2020**, 12, 3605	5	0
227	Seasonal fluctuation of nonstructural carbohydrates reveals the metabolic availability of stemwood reserves in temperate trees with contrasting wood anatomy. *Tree Physiology*, **2020**, 40, 1355-1365	4.2	8
226	Urban warming advances spring phenology but reduces the response of phenology to temperature in the conterminous United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 4228-4233	11.5	46
225	Sensitivity of Deciduous Forest Phenology to Environmental Drivers: Implications for Climate Change Impacts Across North America. *Geophysical Research Letters*, **2020**, 47, e2019GL086788	4.9	12
224	Nutrients and water availability constrain the seasonality of vegetation activity in a Mediterranean ecosystem. *Global Change Biology*, **2020**, 26, 4379-4400	11.4	11
223	A New Perspective on Ecological Prediction Reveals Limits to Climate Adaptation in a Temperate Tree Species. *Current Biology*, **2020**, 30, 1447-1453.e4	6.3	6
222	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. *Water Resources Research*, **2020**, 56, e2019WR026058	5.4	98
221	Global Climate. *Bulletin of the American Meteorological Society*, **2020**, 101, S9-S128	6.1	26
220	Decomposing reflectance spectra to track gross primary production in a subalpine evergreen forest. *Biogeosciences*, **2020**, 17, 4523-4544	4.6	7
219	A spatial concordance correlation coefficient with an application to image analysis. *Spatial Statistics* , **2020**, 40, 100405	2.2	1
218	Evaluation of VEGETATION and PROBA-V Phenology Using PhenoCam and Eddy Covariance Data. *Remote Sensing*, **2020**, 12, 3077	5	9
217	Plant carbon allocation in a changing world - challenges and progress: introduction to a Virtual Issue on carbon allocation: Introduction to a virtual issue on carbon allocation. *New Phytologist*, **2020**, 227, 981-988	9.8	28
216	Protocol for Projecting Allele Frequency Change under Future Climate Change at Adaptive-Associated Loci. *STAR Protocols*, **2020**, 1, 100061	1.4	1
215	Carbon budget of the Harvard Forest Long-Term Ecological Research site: pattern, process, and response to global change. *Ecological Monographs*, **2020**, 90, e01423	9	26

214	On quantifying the apparent temperature sensitivity of plant phenology. *New Phytologist*, **2020**, 225, 1033-1040	9.8	27
213	Using Direct Phloem Transport Manipulation to Advance Understanding of Carbon Dynamics in Forest Trees. *Frontiers in Forests and Global Change*, **2019**, 2,	3.7	8
212	Flux Puppy An open-source software application and portable system design for low-cost manual measurements of CO2 and H2O fluxes. *Agricultural and Forest Meteorology*, **2019**, 274, 1-6	5.8	4
211	Data extraction from digital repeat photography using xROI: An interactive framework to facilitate the process. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2019**, 152, 132-144	11.8	10
210	On the need to consider wood formation processes in global vegetation models and a suggested approach. *Annals of Forest Science*, **2019**, 76, 1	3.1	34
209	Testing Hopkins' Bioclimatic Law with PhenoCam data. *Applications in Plant Sciences*, **2019**, 7, e01228	2.3	24
208	Six years of ecosystem-atmosphere greenhouse gas fluxes measured in a sub-boreal forest. *Scientific Data*, **2019**, 6, 117	8.2	15
207	Disentangling the role of photosynthesis and stomatal conductance on rising forest water-use efficiency. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 16909-16914	11.5	91
206	FLUXNET-CH4 Synthesis Activity: Objectives, Observations, and Future Directions. *Bulletin of the American Meteorological Society*, **2019**, 100, 2607-2632	6.1	77
205	Thermal imaging in plant and ecosystem ecology: applications and challenges. *Ecosphere*, **2019**, 10, e02768	3.1	35
204	Tracking vegetation phenology across diverse biomes using Version 2.0 of the PhenoCam Dataset. *Scientific Data*, **2019**, 6, 222	8.2	38
203	Extremes in Benthic Ecosystem Services; Blue Carbon Natural Capital Shallower Than 1000 m in Isolated, Small, and Young Ascension Islands EEZ. *Frontiers in Marine Science*, **2019**, 6,	4.5	8
202	Tracking seasonal rhythms of plants in diverse ecosystems with digital camera imagery. *New Phytologist*, **2019**, 222, 1742-1750	9.8	38
201	Whole-tree nonstructural carbohydrate storage and seasonal dynamics in five temperate species. *New Phytologist*, **2019**, 221, 1466-1477	9.8	73
200	Merging a mechanistic enzymatic model of soil heterotrophic respiration into an ecosystem model in two AmeriFlux sites of northeastern USA. *Agricultural and Forest Meteorology*, **2018**, 252, 155-166	5.8	27
199	Limitations to winter and spring photosynthesis of a Rocky Mountain subalpine forest. *Agricultural and Forest Meteorology*, **2018**, 252, 241-255	5.8	45
198	Effects of forest tent caterpillar defoliation on carbon and water fluxes in a boreal aspen stand. *Agricultural and Forest Meteorology*, **2018**, 253-254, 176-189	5.8	10
197	Carbon fluxes and interannual drivers in a temperate forest ecosystem assessed through comparison of top-down and bottom-up approaches. *Agricultural and Forest Meteorology*, **2018**, 256-257, 420-430	5.8	22

196	Intercomparison of phenological transition dates derived from the PhenoCam Dataset V1.0 and MODIS satellite remote sensing. *Scientific Reports*, **2018**, 8, 5679	4.9	71
195	An integrated phenology modelling framework in r. *Methods in Ecology and Evolution*, **2018**, 9, 1276-1285	7.7	73
194	Evaluation of land surface phenology from VIIRS data using time series of PhenoCam imagery. *Agricultural and Forest Meteorology*, **2018**, 256-257, 137-149	5.8	85
193	Tracking vegetation phenology across diverse North American biomes using PhenoCam imagery. *Scientific Data*, **2018**, 5, 180028	8.2	187
192	Fine-scale perspectives on landscape phenology from unmanned aerial vehicle (UAV) photography. *Agricultural and Forest Meteorology*, **2018**, 248, 397-407	5.8	70
191	Estimation of plant area index and phenological transition dates from digital repeat photography and radiometric approaches in a hardwood forest in the Northeastern United States. *Agricultural and Forest Meteorology*, **2018**, 249, 457-466	5.8	27
190	Linking annual tree growth with eddy-flux measures of net ecosystem productivity across twenty years of observation in a mixed conifer forest. *Agricultural and Forest Meteorology*, **2018**, 249, 479-487	5.8	41
189	Ages and transit times as important diagnostics of model performance for predicting carbon dynamics in terrestrial vegetation models. *Biogeosciences*, **2018**, 15, 1607-1625	4.6	4
188	Ecosystem warming extends vegetation activity but heightens vulnerability to cold temperatures. *Nature*, **2018**, 560, 368-371	50.4	149
187	Using Near-Infrared-Enabled Digital Repeat Photography to Track Structural and Physiological Phenology in Mediterranean Tree Grass Ecosystems. *Remote Sensing*, **2018**, 10, 1293	5	43
186	Model-based analysis of the impact of diffuse radiation on CO2 exchange in a temperate deciduous forest. *Agricultural and Forest Meteorology*, **2018**, 249, 377-389	5.8	23
185	A steady-state approximation approach to simulate seasonal leaf dynamics of deciduous broadleaf forests via climate variables. *Agricultural and Forest Meteorology*, **2018**, 249, 44-56	5.8	7
184	NDVI derived from near-infrared-enabled digital cameras: Applicability across different plant functional types. *Agricultural and Forest Meteorology*, **2018**, 249, 275-285	5.8	44
183	Linking big models to big data: efficient ecosystem model calibration through Bayesian model emulation. *Biogeosciences*, **2018**, 15, 5801-5830	4.6	51
182	Seasonal patterns of nonstructural carbohydrate reserves in four woody boreal species1. *Journal of the Torrey Botanical Society*, **2018**, 145, 332	0.5	2
181	Integrating camera imagery, crowdsourcing, and deep learning to improve high-frequency automated monitoring of snow at continental-to-global scales. *PLoS ONE*, **2018**, 13, e0209649	3.7	8
180	Standardized protocols and procedures can precisely and accurately quantify non-structural carbohydrates. *Tree Physiology*, **2018**, 38, 1764-1778	4.2	82
179	Novel Measurements of Fine-Scale Albedo: Using a Commercial Quadcopter to Measure Radiation Fluxes. *Remote Sensing*, **2018**, 10, 1303	5	15

178	Widespread seasonal compensation effects of spring warming on northern plant productivity. *Nature*, **2018**, 562, 110-114	50.4	134
177	Later springs green-up faster: the relation between onset and completion of green-up in deciduous forests of North America. *International Journal of Biometeorology*, **2018**, 62, 1645-1655	3.7	15
176	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	5.8	96
175	Phenocams Bridge the Gap between Field and Satellite Observations in an Arid Grassland Ecosystem. *Remote Sensing*, **2017**, 9, 1071	5	43
174	Attaining whole-ecosystem warming using air and deep-soil heating methods with an elevated CO₂ atmosphere. *Biogeosciences*, **2017**, 14, 861-883	4.6	67
173	On the relationship between continuous measures of canopy greenness derived using near-surface remote sensing and satellite-derived vegetation products. *Agricultural and Forest Meteorology*, **2017**, 247, 280-292	5.8	30
172	Phenology from Landsat when data is scarce: Using MODIS and Dynamic Time-Warping to combine multi-year Landsat imagery to derive annual phenology curves. *International Journal of Applied Earth Observation and Geoinformation*, **2017**, 54, 72-83	7.3	55
171	A Dynamic Landsat Derived Normalized Difference Vegetation Index (NDVI) Product for the Conterminous United States. *Remote Sensing*, **2017**, 9, 863	5	110
170	Observing Spring and Fall Phenology in a Deciduous Forest with Aerial Drone Imagery. *Sensors*, **2017**, 17,	3.8	38
169	Volunteer recruitment and retention in online citizen science projects using marketing strategies: lessons from Season Spotter. *Journal of Science Communication*, **2017**, 16, A01	2	18
168	Integrating Multiscale Seasonal Data for Resource Management. *Eos*, **2017**,	1.5	3
167	Constrained partitioning of autotrophic and heterotrophic respiration reduces model uncertainties of forest ecosystem carbon fluxes but not stocks. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 2476-2492	3.7	23
166	A new seasonal-deciduous spring phenology submodel in the Community Land Model 4.5: impacts on carbon and water cycling under future climate scenarios. *Global Change Biology*, **2016**, 22, 3675-3688	11.4	43
165	Phenopix: A R package for image-based vegetation phenology. *Agricultural and Forest Meteorology*, **2016**, 220, 141-150	5.8	93
164	Season Spotter: Using Citizen Science to Validate and Scale Plant Phenology from Near-Surface Remote Sensing. *Remote Sensing*, **2016**, 8, 726	5	39
163	Multiscale modeling of spring phenology across Deciduous Forests in the Eastern United States. *Global Change Biology*, **2016**, 22, 792-805	11.4	68
162	Using phenocams to monitor our changing Earth: toward a global phenocam network. *Frontiers in Ecology and the Environment*, **2016**, 14, 84-93	5.5	140
161	Productivity of North American grasslands is increased under future climate scenarios despite rising aridity. *Nature Climate Change*, **2016**, 6, 710-714	21.4	99

160	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
159	Continuous, long-term, high-frequency thermal imaging of vegetation: Uncertainties and recommended best practices. *Agricultural and Forest Meteorology*, **2016**, 228-229, 315-326	5.8	59
158	Multisite analysis of land surface phenology in North American temperate and boreal deciduous forests from Landsat. *Remote Sensing of Environment*, **2016**, 186, 452-464	13.2	88
157	Solar-induced chlorophyll fluorescence that correlates with canopy photosynthesis on diurnal and seasonal scales in a temperate deciduous forest. *Geophysical Research Letters*, **2015**, 42, 2977-2987	4.9	303
156	Distribution and mixing of old and new nonstructural carbon in two temperate trees. *New Phytologist*, **2015**, 206, 590-7	9.8	78
155	Influence of physiological phenology on the seasonal pattern of ecosystem respiration in deciduous forests. *Global Change Biology*, **2015**, 21, 363-76	11.4	41
154	Models to predict the start of the airborne pollen season. *International Journal of Biometeorology*, **2015**, 59, 837-48	3.7	8
153	The timing of autumn senescence is affected by the timing of spring phenology: implications for predictive models. *Global Change Biology*, **2015**, 21, 2634-2641	11.4	172
152	Greenness indices from digital cameras predict the timing and seasonal dynamics of canopy-scale photosynthesis **2015**, 25, 99-115		100
151	Approaches to advance scientific understanding of macrosystems ecology. *Frontiers in Ecology and the Environment*, **2014**, 12, 15-23	5.5	47
150	Nonstructural carbon in woody plants. *Annual Review of Plant Biology*, **2014**, 65, 667-87	30.7	377
149	PlantEnvironment Interactions Across Multiple Scales **2014**, 1-27		1
148	Data-driven diagnostics of terrestrial carbon dynamics over North America. *Agricultural and Forest Meteorology*, **2014**, 197, 142-157	5.8	73
147	Tracking forest phenology and seasonal physiology using digital repeat photography: a critical assessment **2014**, 24, 1478-89		153
146	Steeper declines in forest photosynthesis than respiration explain age-driven decreases in forest growth. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 8856-60	11.5	79
145	Macrosystems ecology: understanding ecological patterns and processes at continental scales. *Frontiers in Ecology and the Environment*, **2014**, 12, 5-14	5.5	230
144	Net carbon uptake has increased through warming-induced changes in temperate forest phenology. *Nature Climate Change*, **2014**, 4, 598-604	21.4	442
143	Monitoring vegetation phenology using an infrared-enabled security camera. *Agricultural and Forest Meteorology*, **2014**, 195-196, 143-151	5.8	51

142	Evaluating remote sensing of deciduous forest phenology at multiple spatial scales using PhenoCam imagery. *Biogeosciences*, **2014**, 11, 4305-4320	4.6	189
141	Remote sensing of annual terrestrial gross primary productivity from MODIS: an assessment using the FLUXNET La Thuile data set. *Biogeosciences*, **2014**, 11, 2185-2200	4.6	49
140	Keenan et al. reply. *Nature*, **2014**, 507, E2-3	50.4	4
139	Forest ecosystem changes from annual methane source to sink depending on late summer water balance. *Geophysical Research Letters*, **2014**, 41, 673-679	4.9	36
138	A tale of two springs: using recent climate anomalies to characterize the sensitivity of temperate forest phenology to climate change. *Environmental Research Letters*, **2014**, 9, 054006	6.2	67
137	Extraction of Nonstructural Carbon and Cellulose from Wood for Radiocarbon Analysis. *Bio-protocol* , **2014**, 4,	0.9	4
136	PlantEnvironment Interactions Across Multiple Scales **2014**, 1-23		1
135	Increase in forest water-use efficiency as atmospheric carbon dioxide concentrations rise. *Nature*, **2013**, 499, 324-7	50.4	719
134	Evaluation of continental carbon cycle simulations with North American flux tower observations. *Ecological Monographs*, **2013**, 83, 531-556	9	63
133	Age, allocation and availability of nonstructural carbon in mature red maple trees. *New Phytologist*, **2013**, 200, 1145-55	9.8	129
132	Rate my data: quantifying the value of ecological data for the development of models of the terrestrial carbon cycle **2013**, 23, 273-86		63
131	Using FLUXNET data to improve models of springtime vegetation activity onset in forest ecosystems. *Agricultural and Forest Meteorology*, **2013**, 171-172, 46-56	5.8	79
130	Climate change at the ecosystem scale: a 50-year record in New Hampshire. *Climatic Change*, **2013**, 116, 457-477	4.5	38
129	Seasonal dynamics and age of stemwood nonstructural carbohydrates in temperate forest trees. *New Phytologist*, **2013**, 197, 850-861	9.8	247
128	Daily MODIS 500 m reflectance anisotropy direct broadcast (DB) products for monitoring vegetation phenology dynamics. *International Journal of Remote Sensing*, **2013**, 34, 5997-6016	3.1	37
127	Climate change, phenology, and phenological control of vegetation feedbacks to the climate system. *Agricultural and Forest Meteorology*, **2013**, 169, 156-173	5.8	1121
126	Is the spherical leaf inclination angle distribution a valid assumption for temperate and boreal broadleaf tree species?. *Agricultural and Forest Meteorology*, **2013**, 169, 186-194	5.8	120
125	Mesic Temperate Deciduous Forest Phenology **2013**, 211-224		7

124	Nitrogen cycling, forest canopy reflectance, and emergent properties of ecosystems. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E2437	11.5	24
123	Near-Surface Sensor-Derived Phenology **2013**, 413-430		17
122	Evaluating the agreement between measurements and models of net ecosystem exchange at different times and timescales using wavelet coherence: an example using data from the North American Carbon Program Site-Level Interim Synthesis. *Biogeosciences*, **2013**, 10, 6893-6909	4.6	25
121	Predicting climate change impacts on the amount and duration of autumn colors in a New England forest. *PLoS ONE*, **2013**, 8, e57373	3.7	100
120	Using model-data fusion to interpret past trends, and quantify uncertainties in future projections, of terrestrial ecosystem carbon cycling. *Global Change Biology*, **2012**, 18, 2555-2569	11.4	135
119	Ecological impacts of a widespread frost event following early spring leaf-out. *Global Change Biology*, **2012**, 18, 2365-2377	11.4	168
118	Uncertainty Quantification **2012**, 173-209		59
117	Partitioning of Net Fluxes **2012**, 263-289		22
116	Linking near-surface and satellite remote sensing measurements of deciduous broadleaf forest phenology. *Remote Sensing of Environment*, **2012**, 117, 307-321	13.2	201
115	Intercomparison of MODIS albedo retrievals and in situ measurements across the global FLUXNET network. *Remote Sensing of Environment*, **2012**, 121, 323-334	13.2	221
114	Digital repeat photography for phenological research in forest ecosystems. *Agricultural and Forest Meteorology*, **2012**, 152, 159-177	5.8	352
113	Terrestrial biosphere model performance for inter-annual variability of land-atmosphere CO2 exchange. *Global Change Biology*, **2012**, 18, 1971-1987	11.4	191
112	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
111	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
110	On the uncertainty of phenological responses to climate change, and implications for a terrestrial biosphere model. *Biogeosciences*, **2012**, 9, 2063-2083	4.6	115
109	Constraining a global ecosystem model with multi-site eddy-covariance data. *Biogeosciences*, **2012**, 9, 3757-3776	4.6	70
108	Variation in foliar nitrogen and albedo in response to nitrogen fertilization and elevated CO2. *Oecologia*, **2012**, 169, 915-25	2.9	19
107	Landscape controls on the timing of spring, autumn, and growing season length in mid-Atlantic forests. *Global Change Biology*, **2012**, 18, 656-674	11.4	156

106	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
105	Endogenous circadian regulation of carbon dioxide exchange in terrestrial ecosystems. *Global Change Biology*, **2012**, 18, 1956-1970	11.4	30
104	Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations. *Journal of Geophysical Research*, **2011**, 116,		765
103	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. *Journal of Geophysical Research*, **2011**, 116,		66
102	Seasonal variation of photosynthetic model parameters and leaf area index from global Fluxnet eddy covariance data. *Journal of Geophysical Research*, **2011**, 116,		32
101	Assessing parameter variability in a photosynthesis model within and between plant functional types using global Fluxnet eddy covariance data. *Agricultural and Forest Meteorology*, **2011**, 151, 22-38	5.8	105
100	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	5.8	145
99	Leaf area index uncertainty estimates for model□data fusion applications. *Agricultural and Forest Meteorology*, **2011**, 151, 1287-1292	5.8	38
98	Using digital repeat photography and eddy covariance data to model grassland phenology and photosynthetic CO2 uptake. *Agricultural and Forest Meteorology*, **2011**, 151, 1325-1337	5.8	154
97	Measuring effective leaf area index, foliage profile, and stand height in New England forest stands using a full-waveform ground-based lidar. *Remote Sensing of Environment*, **2011**, 115, 2954-2964	13.2	118
96	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. *Global Change Biology*, **2011**, 17, 390-409	11.4	102
95	The model-data fusion pitfall: assuming certainty in an uncertain world. *Oecologia*, **2011**, 167, 587-97	2.9	91
94	Canopy-scale relationships between foliar nitrogen and albedo are not observed in leaf reflectance and transmittance within temperate deciduous tree species. *Botany*, **2011**, 89, 491-497	1.3	40
93	Optimizing spectral indices and chemometric analysis of leaf chemical properties using radiative transfer modeling. *Remote Sensing of Environment*, **2011**, 115, 2742-2750	13.2	215
92	Observed increase in local cooling effect of deforestation at higher latitudes. *Nature*, **2011**, 479, 384-7	50.4	403
91	Why is there a Home Bias? A Case Study of Wine*. *Journal of Wine Economics*, **2011**, 6, 37-66	0.8	11
90	Response to Comment on "Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level". *Science*, **2011**, 331, 1265-1265	33.3	8
89	Assimilation exceeds respiration sensitivity to drought: A FLUXNET synthesis. *Global Change Biology*, **2010**, 16, 657-670	11.4	203

88	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
87	Separation of net ecosystem exchange into assimilation and respiration using a light response curve approach: critical issues and global evaluation. *Global Change Biology*, **2010**, 16, 187-208	11.4	584
86	Recent decline in the global land evapotranspiration trend due to limited moisture supply. *Nature*, **2010**, 467, 951-4	50.4	1382
85	Patterns and controls of the variability of radiation use efficiency and primary productivity across terrestrial ecosystems. *Global Ecology and Biogeography*, **2010**, 19, 253-267	6.1	158
84	Influence of spring and autumn phenological transitions on forest ecosystem productivity. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2010**, 365, 3227-46	5.8	594
83	Global convergence in the temperature sensitivity of respiration at ecosystem level. *Science*, **2010**, 329, 838-40	33.3	358
82	Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests. *Journal of Geophysical Research*, **2010**, 115,		21
81	Comment on Vickers et al.: Self-correlation between assimilation and respiration resulting from flux partitioning of eddy-covariance CO2 fluxes. *Agricultural and Forest Meteorology*, **2010**, 150, 312-314	5.8	24
80	Assessing foliar chlorophyll contents with the SPAD-502 chlorophyll meter: a calibration test with thirteen tree species of tropical rainforest in French Guiana. *Annals of Forest Science*, **2010**, 67, 607-607	3.1	106
79	Estimating Uncertainty in Ecosystem Budget Calculations. *Ecosystems*, **2010**, 13, 239-248	3.9	69
78	Estimating parameters of a forest ecosystem C model with measurements of stocks and fluxes as joint constraints. *Oecologia*, **2010**, 164, 25-40	2.9	129
77	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	13.2	183
76	Biosphere-atmosphere exchange of CO₂ in relation to climate: a cross-biome analysis across multiple time scales. *Biogeosciences*, **2009**, 6, 2297-2312	4.6	115
75	Improving land surface models with FLUXNET data. *Biogeosciences*, **2009**, 6, 1341-1359	4.6	260
74	Influence of spring phenology on seasonal and annual carbon balance in two contrasting New England forests. *Tree Physiology*, **2009**, 29, 321-31	4.2	263
73	Stomatal Length Correlates with Elevation of Growth in Four Temperate Species *Journal of Sustainable Forestry*, **2009**, 28, 63-73	1.2	36
72	Tracking the rhythm of the seasons in the face of global change: phenological research in the 21st century. *Frontiers in Ecology and the Environment*, **2009**, 7, 253-260	5.5	350
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