

D D Baldocchi

List of Publications by Year in Descending Order

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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.

383
papers

54,986
citations

120
h-index

230
g-index

498
ext. papers

61,298
ext. citations

7
avg, IF

7.73
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 383 | Atmospheric humidity deficits tell us how soil moisture deficits down-regulate ecosystem evaporation. <i>Advances in Water Resources</i> , 2022 , 159, 104100 | 4.7 | 0 |
| 382 | Confronting the water potential information gap.. <i>Nature Geoscience</i> , 2022 , 15, 158-164 | 18.3 | 3 |
| 381 | Matching high resolution satellite data and flux tower footprints improves their agreement in photosynthesis estimates. <i>Agricultural and Forest Meteorology</i> , 2022 , 316, 108878 | 5.8 | 2 |
| 380 | What lies beneath: Vertical temperature heterogeneity in a Mediterranean woodland savanna. <i>Remote Sensing of Environment</i> , 2022 , 274, 112950 | 13.2 | 0 |
| 379 | Cross-biome synthesis of source versus sink limits to tree growth.. <i>Science</i> , 2022 , 376, 758-761 | 33.3 | 7 |
| 378 | The International Soil Moisture Network: serving Earth system science for over a decade. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 5749-5804 | 5.5 | 22 |
| 377 | Carbon Flux Trajectories and Site Conditions from Restored Impounded Marshes in the Sacramento-San Joaquin Delta. <i>Geophysical Monograph Series</i> , 2021 , 247-271 | 1.1 | 2 |
| 376 | Tidal and Nontidal Marsh Restoration: A Trade-Off Between Carbon Sequestration, Methane Emissions, and Soil Accretion. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006573 | 3.7 | 1 |
| 375 | A remote sensing-based three-source energy balance model to improve global estimations of evapotranspiration in semi-arid tree-grass ecosystems. <i>Global Change Biology</i> , 2021 , | 11.4 | 2 |
| 374 | Productive wetlands restored for carbon sequestration quickly become net CO2 sinks with site-level factors driving uptake variability. <i>PLoS ONE</i> , 2021 , 16, e0248398 | 3.7 | 13 |
| 373 | Evaluation of Atmospheric Boundary Layer Height From Wind Profiling Radar and Slab Models and Its Responses to Seasonality of Land Cover, Subsidence, and Advection. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033775 | 4.4 | 6 |
| 372 | Substantial hysteresis in emergent temperature sensitivity of global wetland CH emissions. <i>Nature Communications</i> , 2021 , 12, 2266 | 17.4 | 10 |
| 371 | Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021 , 301-302, 108350 | 5.8 | 43 |
| 370 | 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 |
| 369 | ECOSTRESS estimates gross primary production with fine spatial resolution for different times of day from the International Space Station. <i>Remote Sensing of Environment</i> , 2021 , 258, 112360 | 13.2 | 15 |
| 368 | FLUXNET-CH₄; 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 |
| 367 | On the inter- and intra-annual variability of ecosystem evapotranspiration and water use efficiency of an oak savanna and annual grassland subjected to booms and busts in rainfall. <i>Global Change Biology</i> , 2021 , 27, 359-375 | 11.4 | 8 |

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| 366 | Interoperability of ECOSTRESS and Landsat for mapping evapotranspiration time series at sub-field scales. <i>Remote Sensing of Environment</i> , 2021 , 252, 112189 | 13.2 | 33 |
| 365 | The water footprint of carbon capture and storage technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 138, 110511 | 16.2 | 12 |
| 364 | Remotely sensed phenological heterogeneity of restored wetlands: linking vegetation structure and function. <i>Agricultural and Forest Meteorology</i> , 2021 , 296, 108215 | 5.8 | 11 |
| 363 | 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 |
| 362 | An Ecosystem-Scale Flux Measurement Strategy to Assess Natural Climate Solutions. <i>Environmental Science & Technology</i> , 2021 , 55, 3494-3504 | 10.3 | 9 |
| 361 | Moving beyond the incorrect but useful paradigm: reevaluating big-leaf and multilayer plant canopies to model biosphere-atmosphere fluxes: A review. <i>Agricultural and Forest Meteorology</i> , 2021 , 306, 108435 | 5.8 | 17 |
| 360 | Multiscale Assessment of Agricultural Consumptive Water Use in California's Central Valley. <i>Water Resources Research</i> , 2021 , 57, e2020WR028876 | 5.4 | |
| 359 | 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 |
| 358 | The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021 , 598, 468-472 | 50.4 | 8 |
| 357 | Vertical structure heterogeneity in broadleaf forests: Effects on light interception and canopy photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2021 , 307, 108525 | 5.8 | 2 |
| 356 | 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 |
| 355 | Seasonality in aerodynamic resistance across a range of North American ecosystems. <i>Agricultural and Forest Meteorology</i> , 2021 , 310, 108613 | 5.8 | 3 |
| 354 | Measuring surface temperatures in a woodland savanna: Opportunities and challenges of thermal imaging in an open-canopy ecosystem. <i>Agricultural and Forest Meteorology</i> , 2021 , 310, 108484 | 5.8 | 3 |
| 353 | Restoring wetlands on intensive agricultural lands modifies nitrogen cycling microbial communities and reduces NO production potential. <i>Journal of Environmental Management</i> , 2021 , 299, 113562 | 7.9 | 3 |
| 352 | Is foliage clumping an outcome of resource limitations within forests?. <i>Agricultural and Forest Meteorology</i> , 2020 , 295, 108185 | 5.8 | 5 |
| 351 | Modeled Microbial Dynamics Explain the Apparent Temperature Sensitivity of Wetland Methane Emissions. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006678 | 5.9 | 12 |
| 350 | Influence of sun zenith angle on canopy clumping and the resulting impacts on photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2020 , 291, 108065 | 5.8 | 12 |
| 349 | Measurement of Fluxes Over Land: Capabilities, Origins, and Remaining Challenges. <i>Boundary-Layer Meteorology</i> , 2020 , 177, 365-394 | 3.4 | 7 |

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| 348 | Methane emissions reduce the radiative cooling effect of a subtropical estuarine mangrove wetland by half. <i>Global Change Biology</i> , 2020 , 26, 4998-5016 | 11.4 | 16 |
| 347 | Soil thawing regulates the spring growth onset in tundra and alpine biomes. <i>Science of the Total Environment</i> , 2020 , 742, 140637 | 10.2 | 5 |
| 346 | Inferring CO ₂ fertilization effect based on global monitoring land-atmosphere exchange with a theoretical model. <i>Environmental Research Letters</i> , 2020 , 15, 084009 | 6.2 | 16 |
| 345 | Wildfire-Smoke Aerosols Lead to Increased Light Use Efficiency Among Agricultural and Restored Wetland Land Uses in California's Central Valley. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005380 | 3.7 | 19 |
| 344 | Experimental harvesting of wetland plants to evaluate trade-offs between reducing methane emissions and removing nutrients accumulated to the biomass in constructed wetlands. <i>Science of the Total Environment</i> , 2020 , 715, 136960 | 10.2 | 10 |
| 343 | 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 |
| 342 | Outgoing Near-Infrared Radiation From Vegetation Scales With Canopy Photosynthesis Across a Spectrum of Function, Structure, Physiological Capacity, and Weather. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005534 | 3.7 | 32 |
| 341 | Where old meets new: An ecosystem study of methanogenesis in a reflooded agricultural peatland. <i>Global Change Biology</i> , 2020 , 26, 772-785 | 11.4 | 10 |
| 340 | Gap-filling approaches for eddy covariance methane fluxes: A comparison of three machine learning algorithms and a traditional method with principal component analysis. <i>Global Change Biology</i> , 2020 , 26, 1499-1518 | 11.4 | 40 |
| 339 | TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188 | 11.4 | 399 |
| 338 | 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 |
| 337 | Transpiration and evaporation in a Californian oak-grass savanna: Field measurements and partitioning model results. <i>Agricultural and Forest Meteorology</i> , 2020 , 295, 108204 | 5.8 | 8 |
| 336 | The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225 | 8.2 | 256 |
| 335 | The COVID-19 lockdowns: a window into the Earth System. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 470-481 | 30.2 | 90 |
| 334 | How eddy covariance flux measurements have contributed to our understanding of Global Change Biology. <i>Global Change Biology</i> , 2020 , 26, 242-260 | 11.4 | 93 |
| 333 | Effect of Drought-Induced Salinization on Wetland Methane Emissions, Gross Ecosystem Productivity, and Their Interactions. <i>Ecosystems</i> , 2020 , 23, 675-688 | 3.9 | 12 |
| 332 | Impact of Insolation Data Source on Remote Sensing Retrievals of Evapotranspiration over the California Delta. <i>Remote Sensing</i> , 2019 , 11, 216 | 5 | 13 |
| 331 | Assessing the carbon and climate benefit of restoring degraded agricultural peat soils to managed wetlands. <i>Agricultural and Forest Meteorology</i> , 2019 , 268, 202-214 | 5.8 | 49 |

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| 330 | What is global photosynthesis? History, uncertainties and opportunities. <i>Remote Sensing of Environment</i> , 2019 , 223, 95-114 | 13.2 | 146 |
| 329 | Natural carbon solutions are not large or fast enough. <i>Global Change Biology</i> , 2019 , 25, e5 | 11.4 | 0 |
| 328 | How Much Water Is Evaporated Across California? A Multiyear Assessment Using a Biophysical Model Forced With Satellite Remote Sensing Data. <i>Water Resources Research</i> , 2019 , 55, 2722-2741 | 5.4 | 16 |
| 327 | Impact of Air Pollution Controls on Radiation Fog Frequency in the Central Valley of California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 5889 | 4.4 | 7 |
| 326 | Widespread inhibition of daytime ecosystem respiration. <i>Nature Ecology and Evolution</i> , 2019 , 3, 407-415 | 12.3 | 60 |
| 325 | FLUXNET-CH4 Synthesis Activity: Objectives, Observations, and Future Directions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2607-2632 | 6.1 | 77 |
| 324 | Including soil water stress in process-based ecosystem models by scaling down maximum carboxylation rate using accumulated soil water deficit. <i>Agricultural and Forest Meteorology</i> , 2019 , 276-277, 107649 | 5.8 | 6 |
| 323 | Life and the five biological laws. Lessons for global change models and sustainability. <i>Ecological Complexity</i> , 2019 , 38, 11-14 | 2.6 | 1 |
| 322 | Soil properties and sediment accretion modulate methane fluxes from restored wetlands. <i>Global Change Biology</i> , 2018 , 24, 4107-4121 | 11.4 | 24 |
| 321 | Using imaging spectroscopy to detect variation in terrestrial ecosystem productivity across a water-stressed landscape 2018 , 28, 1313-1324 | | 24 |
| 320 | The effect of land cover type and structure on evapotranspiration from agricultural and wetland sites in the Sacramento-San Joaquin River Delta, California. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 179-195 | 5.8 | 49 |
| 319 | Inter-annual variability of net and gross ecosystem carbon fluxes: A review. <i>Agricultural and Forest Meteorology</i> , 2018 , 249, 520-533 | 5.8 | 165 |
| 318 | Assessing the interplay between canopy energy balance and photosynthesis with cellulose δ : large-scale patterns and independent ground-truthing. <i>Oecologia</i> , 2018 , 187, 995-1007 | 2.9 | 10 |
| 317 | Field-Scale Assessment of Land and Water Use Change over the California Delta Using Remote Sensing. <i>Remote Sensing</i> , 2018 , 10, 889 | 5 | 48 |
| 316 | Must we incorporate soil moisture information when applying light use efficiency models with satellite remote sensing information?. <i>New Phytologist</i> , 2018 , 218, 1293-1294 | 9.8 | 4 |
| 315 | 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 |
| 314 | Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. <i>Biogeosciences</i> , 2018 , 15, 4815-4832 | 4.6 | 19 |
| 313 | A Unique Combination of Aerodynamic and Surface Properties Contribute to Surface Cooling in Restored Wetlands of the Sacramento-San Joaquin Delta, California. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2072-2090 | 3.7 | 22 |

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| 312 | A Biogeochemical Compromise: The High Methane Cost of Sequestering Carbon in Restored Wetlands. <i>Geophysical Research Letters</i> , 2018 , 45, 6081-6091 | 4.9 | 50 |
| 311 | The physics and ecology of mining carbon dioxide from the atmosphere by ecosystems. <i>Global Change Biology</i> , 2018 , 25, 1191 | 11.4 | 72 |
| 310 | Modeling gross primary production of paddy rice cropland through analyses of data from CO2 eddy flux tower sites and MODIS images. <i>Remote Sensing of Environment</i> , 2017 , 190, 42-55 | 13.2 | 31 |
| 309 | Revisiting the partitioning of net ecosystem exchange of CO2 into photosynthesis and respiration with simultaneous flux measurements of ¹³ CO2 and CO2, soil respiration and a biophysical model, CANVEG. <i>Agricultural and Forest Meteorology</i> , 2017 , 234-235, 149-163 | 5.8 | 40 |
| 308 | Using digital camera and Landsat imagery with eddy covariance data to model gross primary production in restored wetlands. <i>Agricultural and Forest Meteorology</i> , 2017 , 237-238, 233-245 | 5.8 | 32 |
| 307 | Evaluation of a hierarchy of models reveals importance of substrate limitation for predicting carbon dioxide and methane exchange in restored wetlands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 145-167 | 3.7 | 29 |
| 306 | Using data from Landsat, MODIS, VIIRS and PhenoCams to monitor the phenology of California oak/grass savanna and open grassland across spatial scales. <i>Agricultural and Forest Meteorology</i> , 2017 , 237-238, 311-325 | 5.8 | 96 |
| 305 | Photosynthetic responses to temperature across leaf-canopy-ecosystem scales: a 15-year study in a Californian oak-grass savanna. <i>Photosynthesis Research</i> , 2017 , 132, 277-291 | 3.7 | 19 |
| 304 | Evaluation of Density Corrections to Methane Fluxes Measured by Open-Path Eddy Covariance over Contrasting Landscapes. <i>Boundary-Layer Meteorology</i> , 2017 , 165, 197-210 | 3.4 | 13 |
| 303 | Fluxes all of the time? A primer on the temporal representativeness of FLUXNET. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 289-307 | 3.7 | 76 |
| 302 | The future of evapotranspiration: Global requirements for ecosystem functioning, carbon and climate feedbacks, agricultural management, and water resources. <i>Water Resources Research</i> , 2017 , 53, 2618-2626 | 5.4 | 344 |
| 301 | Estimating the sensitivity of stomatal conductance to photosynthesis: a review. <i>Plant, Cell and Environment</i> , 2017 , 40, 1214-1238 | 8.4 | 88 |
| 300 | Effects of seasonality, transport pathway, and spatial structure on greenhouse gas fluxes in a restored wetland. <i>Global Change Biology</i> , 2017 , 23, 2768-2782 | 11.4 | 38 |
| 299 | A New Data Set to Keep a Sharper Eye on Land-Air Exchanges. <i>Eos</i> , 2017 , | 1.5 | 31 |
| 298 | The contribution of an overlooked transport process to a wetland's methane emissions. <i>Geophysical Research Letters</i> , 2016 , 43, 6276-6284 | 4.9 | 38 |
| 297 | Identifying scale-emergent, nonlinear, asynchronous processes of wetland methane exchange. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 188-204 | 3.7 | 67 |
| 296 | Spectral sensitivity of radiative transfer inversion for seasonal canopy pigments estimation from aviris data in a woodland savanna ecosystem 2016 , | | 1 |
| 295 | Variation of energy and carbon fluxes from a restored temperate freshwater wetland and implications for carbon market verification protocols. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 777-795 | 3.7 | 40 |

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| 294 | Biophysical controls on interannual variability in ecosystem-scale CO ₂ and CH ₄ exchange in a California rice paddy. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 978-1001 | 3.7 | 81 |
| 293 | Seeing the Fields and Forests: Application of Surface-Layer Theory and Flux-Tower Data to Calculating Vegetation Canopy Height. <i>Boundary-Layer Meteorology</i> , 2016 , 158, 165-182 | 3.4 | 28 |
| 292 | Terrestrial Carbon Cycle Variability. <i>F1000Research</i> , 2016 , 5, | 3.6 | 33 |
| 291 | 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 |
| 290 | The impact of expanding flooded land area on the annual evaporation of rice. <i>Agricultural and Forest Meteorology</i> , 2016 , 223, 181-193 | 5.8 | 33 |
| 289 | Canopy and climate controls of gross primary production of Mediterranean-type deciduous and evergreen oak savannas. <i>Agricultural and Forest Meteorology</i> , 2016 , 226-227, 132-147 | 5.8 | 15 |
| 288 | Slow ecosystem responses conditionally regulate annual carbon balance over 15 years in Californian oak-grass savanna. <i>Agricultural and Forest Meteorology</i> , 2016 , 228-229, 252-264 | 5.8 | 40 |
| 287 | Seasonal trends in photosynthesis and electron transport during the Mediterranean summer drought in leaves of deciduous oaks. <i>Tree Physiology</i> , 2015 , 35, 485-500 | 4.2 | 23 |
| 286 | 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 |
| 285 | Does day and night sampling reduce spurious correlation between canopy photosynthesis and ecosystem respiration?. <i>Agricultural and Forest Meteorology</i> , 2015 , 207, 117-126 | 5.8 | 49 |
| 284 | Biophysical controls on carbon and water vapor fluxes across a grassland climatic gradient in the United States. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 293-305 | 5.8 | 44 |
| 283 | Agricultural peatland restoration: effects of land-use change on greenhouse gas (CO ₂ and CH ₄) fluxes in the Sacramento-San Joaquin Delta. <i>Global Change Biology</i> , 2015 , 21, 750-65 | 11.4 | 182 |
| 282 | Spatial heterogeneity of fine root biomass and soil carbon in a California oak savanna illuminates plant functional strategy across periods of high and low resource supply. <i>Ecohydrology</i> , 2015 , 8, 294-308 | 2.5 | 10 |
| 281 | Peer review report 2 On Assessment of foliage clumping effects on evapotranspiration estimates in forested ecosystems <i>Agricultural and Forest Meteorology</i> , 2015 , 201, 679 | 5.8 | |
| 280 | Peer review report 2 On Assessment of foliage clumping effects on evapotranspiration estimates in forested ecosystems <i>Agricultural and Forest Meteorology</i> , 2015 , 201, 709 | 5.8 | |
| 279 | Predicting landscape-scale CO ₂ flux at a pasture and rice paddy with long-term hyperspectral canopy reflectance measurements. <i>Biogeosciences</i> , 2015 , 12, 4577-4594 | 4.6 | 12 |
| 278 | Greenness indices from digital cameras predict the timing and seasonal dynamics of canopy-scale photosynthesis 2015 , 25, 99-115 | | 100 |
| 277 | Parsing the variability in CH ₄ flux at a spatially heterogeneous wetland: Integrating multiple eddy covariance towers with high-resolution flux footprint analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1322-1339 | 3.7 | 42 |

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| 276 | Data-driven diagnostics of terrestrial carbon dynamics over North America. <i>Agricultural and Forest Meteorology</i> , 2014 , 197, 142-157 | 5.8 | 73 |
| 275 | Linking plant and ecosystem functional biogeography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13697-702 | 11.5 | 188 |
| 274 | On seeing the wood from the leaves and the role of voxel size in determining leaf area distribution of forests with terrestrial LiDAR. <i>Agricultural and Forest Meteorology</i> , 2014 , 184, 82-97 | 5.8 | 157 |
| 273 | Shallow cumulus rooted in photosynthesis. <i>Geophysical Research Letters</i> , 2014 , 41, 1796-1802 | 4.9 | 31 |
| 272 | Winter fog is decreasing in the fruit growing region of the Central Valley of California. <i>Geophysical Research Letters</i> , 2014 , 41, 3251-3256 | 4.9 | 26 |
| 271 | Measuring fluxes of trace gases and energy between ecosystems and the atmosphere - the state and future of the eddy covariance method. <i>Global Change Biology</i> , 2014 , 20, 3600-9 | 11.4 | 274 |
| 270 | Terrestrial Biosphere-Atmosphere Fluxes 2014 , | | 72 |
| 269 | A randomization method for efficiently and accurately processing fine roots, and separating them from debris, in the laboratory. <i>Plant and Soil</i> , 2013 , 363, 383-398 | 4.2 | 5 |
| 268 | Drought Influences the Accuracy of Simulated Ecosystem Fluxes: A Model-Data Meta-analysis for Mediterranean Oak Woodlands. <i>Ecosystems</i> , 2013 , 16, 749-764 | 3.9 | 37 |
| 267 | Ecosystem Services of Energy Exchange and Regulation 2013 , 81-92 | | 1 |
| 266 | Convergence of potential net ecosystem production among contrasting C3 grasslands. <i>Ecology Letters</i> , 2013 , 16, 502-12 | 10 | 18 |
| 265 | On the correct estimation of gap fraction: How to remove scattered radiation in gap fraction measurements?. <i>Agricultural and Forest Meteorology</i> , 2013 , 174-175, 170-183 | 5.8 | 74 |
| 264 | How will land use affect air temperature in the surface boundary layer? Lessons learned from a comparative study on the energy balance of an oak savanna and annual grassland in California, USA. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013 , 65, 19994 | 3.3 | 68 |
| 263 | Coarse root distribution of a semi-arid oak savanna estimated with ground penetrating radar. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 135-147 | 3.7 | 29 |
| 262 | Database Maintenance, Data Sharing Policy, Collaboration 2012 , 399-424 | | 13 |
| 261 | Global estimation of evapotranspiration using a leaf area index-based surface energy and water balance model. <i>Remote Sensing of Environment</i> , 2012 , 124, 581-595 | 13.2 | 100 |
| 260 | The challenges of measuring methane fluxes and concentrations over a peatland pasture. <i>Agricultural and Forest Meteorology</i> , 2012 , 153, 177-187 | 5.8 | 104 |
| 259 | Modeling energy and carbon fluxes in a heterogeneous oak woodland: A three-dimensional approach. <i>Agricultural and Forest Meteorology</i> , 2012 , 152, 83-100 | 5.8 | 93 |

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| 258 | On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. <i>Agricultural and Forest Meteorology</i> , 2012 , 152, 212-222 | 5.8 | 90 |
| 257 | Ecological controls on net ecosystem productivity of a seasonally dry annual grassland under current and future climates: Modelling with ecosys. <i>Agricultural and Forest Meteorology</i> , 2012 , 152, 189-200 | 5.8 | 48 |
| 256 | Are rain-induced ecosystem respiration pulses enhanced by legacies of antecedent photodegradation in semi-arid environments?. <i>Agricultural and Forest Meteorology</i> , 2012 , 154-155, 203-213 | 5.8 | 57 |
| 255 | Climate and vegetation controls on the surface water balance: Synthesis of evapotranspiration measured across a global network of flux towers. <i>Water Resources Research</i> , 2012 , 48, | 5.4 | 202 |
| 254 | The role of trace gas flux networks in the biogeosciences. <i>Eos</i> , 2012 , 93, 217-218 | 1.5 | 18 |
| 253 | Gross ecosystem photosynthesis causes a diurnal pattern in methane emission from rice. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a | 4.9 | 86 |
| 252 | Continuous observation of tree leaf area index at ecosystem scale using upward-pointing digital cameras. <i>Remote Sensing of Environment</i> , 2012 , 126, 116-125 | 13.2 | 139 |
| 251 | Greenhouse gas (CO ₂ , CH ₄ , H ₂ O) fluxes from drained and flooded agricultural peatlands in the Sacramento-San Joaquin Delta. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 150, 1-18 | 5.7 | 145 |
| 250 | A statistical method for estimating wood thermal diffusivity and probe geometry using in situ heat response curves from sap flow measurements. <i>Tree Physiology</i> , 2012 , 32, 1458-70 | 4.2 | 10 |
| 249 | Causality and persistence in ecological systems: a nonparametric spectral granger causality approach. <i>American Naturalist</i> , 2012 , 179, 524-35 | 3.7 | 66 |
| 248 | Reduction in carbon uptake during turn of the century drought in western North America. <i>Nature Geoscience</i> , 2012 , 5, 551-556 | 18.3 | 216 |
| 247 | Carbon dioxide exchange of a pepperweed (<i>Lepidium latifolium</i> L.) infestation: How do flowering and mowing affect canopy photosynthesis and autotrophic respiration?. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 19 |
| 246 | Integrating and scaling carbon, water, and energy fluxes with optical measurements. <i>Eos</i> , 2011 , 92, 377-377 | | |
| 245 | Integration of MODIS land and atmosphere products with a coupled-process model to estimate gross primary productivity and evapotranspiration from 1 km to global scales. <i>Global Biogeochemical Cycles</i> , 2011 , 25, n/a-n/a | 5.9 | 251 |
| 244 | Biophysical considerations in forestry for climate protection. <i>Frontiers in Ecology and the Environment</i> , 2011 , 9, 174-182 | 5.5 | 209 |
| 243 | Assessing net ecosystem carbon exchange of U.S. terrestrial ecosystems by integrating eddy covariance flux measurements and satellite observations. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 60-69 | 5.8 | 145 |
| 242 | Tracking the structural and functional development of a perennial pepperweed (<i>Lepidium latifolium</i> L.) infestation using a multi-year archive of webcam imagery and eddy covariance measurements. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 916-926 | 5.8 | 44 |
| 241 | Comparing laser-based open- and closed-path gas analyzers to measure methane fluxes using the eddy covariance method. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1312-1324 | 5.8 | 113 |

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| 240 | Are temporal variations of leaf traits responsible for seasonal and inter-annual variability in ecosystem CO ₂ exchange?. <i>Functional Ecology</i> , 2011 , 25, 258-270 | 5.6 | 38 |
| 239 | TRY is a global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935 | 11.4 | 1623 |
| 238 | On the multi-temporal correlation between photosynthesis and soil CO ₂ efflux: reconciling lags and observations. <i>New Phytologist</i> , 2011 , 191, 1006-1017 | 9.8 | 108 |
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