

# Ray Leuning

## List of Publications by Year in descending order

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47  
papers

5,978  
citations

87888

38  
h-index

243625

44  
g-index

48  
all docs

48  
docs citations

48  
times ranked

5970  
citing authors

#	ARTICLE	IF	CITATIONS
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
2	Global variation of transpiration and soil evaporation and the role of their major climate drivers. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6868-6881.	3.3	77
3	An introduction to the Australian and New Zealand flux tower network "OzFlux. Biogeosciences, 2016, 13, 5895-5916.	3.3	159
4	Global vegetation gross primary production estimation using satellite-derived light-use efficiency and canopy conductance. Remote Sensing of Environment, 2015, 163, 206-216.	11.0	43
5	Locating and quantifying greenhouse gas emissions at a geological CO <sub>2</sub> storage site using atmospheric modeling and measurements. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,959-10,979.	3.3	22
6	Improving evapotranspiration estimates in Mediterranean drylands: The role of soil evaporation. Water Resources Research, 2013, 49, 6572-6586.	4.2	64
7	Evaluation of optical remote sensing to estimate actual evapotranspiration and canopy conductance. Remote Sensing of Environment, 2013, 129, 250-261.	11.0	119
8	Atmospheric Tomography: A Bayesian Inversion Technique for Determining the Rate and Location of Fugitive Emissions. Environmental Science & Technology, 2012, 46, 1739-1746.	10.0	33
9	On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. Agricultural and Forest Meteorology, 2012, 152, 212-222.	4.8	121
10	The fundamental equation of eddy covariance and its application in flux measurements. Agricultural and Forest Meteorology, 2012, 152, 135-148.	4.8	56
11	Reflections on the surface energy imbalance problem. Agricultural and Forest Meteorology, 2012, 156, 65-74.	4.8	400
12	Decadal Trends in Evaporation from Global Energy and Water Balances. Journal of Hydrometeorology, 2012, 13, 379-391.	1.9	89
13	The Eddy Covariance Method. , 2012, , 1-19.		73
14	Diagnosing errors in a land surface model (CABLE) in the time and frequency domains. Journal of Geophysical Research, 2011, 116, .	3.3	172
15	Inferring terrestrial photosynthetic light use efficiency of temperate ecosystems from space. Journal of Geophysical Research, 2011, 116, .	3.3	53
16	Documenting improvement in leaf area index estimates from MODIS using hemispherical photos for Australian savannas. Agricultural and Forest Meteorology, 2011, 151, 1453-1461.	4.8	56
17	Decoupling of air flow above and in plant canopies and gravity waves affect micrometeorological estimates of net scalar exchange. Agricultural and Forest Meteorology, 2011, 151, 927-933.	4.8	48
18	Atmospheric tomography to locate CO <sub>2</sub> leakage at storage sites. Energy Procedia, 2011, 4, 3502-3509.	1.8	7

#	ARTICLE	IF	CITATIONS
19	SPECIAL "Savanna Patterns of Energy and Carbon Integrated across the Landscape. Bulletin of the American Meteorological Society, 2011, 92, 1467-1485.	3.3	52
20	Climate control of terrestrial carbon exchange across biomes and continents. Environmental Research Letters, 2010, 5, 034007.	5.2	137
21	Using long-term water balances to parameterize surface conductances and calculate evaporation at 0.05A° spatial resolution. Water Resources Research, 2010, 46, .	4.2	135
22	Scaling of potential evapotranspiration with MODIS data reproduces flux observations and catchment water balance observations across Australia. Journal of Hydrology, 2009, 369, 107-119.	5.4	216
23	Testing Lagrangian atmospheric dispersion modelling to monitor CO2 and CH4 leakage from geosequestration. Atmospheric Environment, 2009, 43, 2602-2611.	4.1	46
24	The Turbulent Lagrangian Time Scale in Forest Canopies Constrained by Fluxes, Concentrations and Source Distributions. Boundary-Layer Meteorology, 2009, 130, 209-228.	2.3	54
25	Estimating nocturnal ecosystem respiration from the vertical turbulent flux and change in storage of CO2. Agricultural and Forest Meteorology, 2009, 149, 1919-1930.	4.8	91
26	A simple surface conductance model to estimate regional evaporation using MODIS leaf area index and the Penman-Monteith equation. Water Resources Research, 2008, 44, .	4.2	351
27	Application of an alternative method to derive reliable estimates of nighttime respiration from eddy covariance measurements in moderately complex topography. Agricultural and Forest Meteorology, 2008, 148, 1174-1180.	4.8	53
28	Measurement of horizontal and vertical advection of CO2 within a forest canopy. Agricultural and Forest Meteorology, 2008, 148, 1777-1797.	4.8	61
29	Evaluating the Performance of Land Surface Models. Journal of Climate, 2008, 21, 5468-5481.	3.2	154
30	δ13C of organic matter transported from the leaves to the roots in Eucalyptus delegatensis: short-term variations and relation to respired CO2. Functional Plant Biology, 2007, 34, 692.	2.1	113
31	Modelling net ecosystem carbon and water exchange of a temperate Eucalyptus delegatensis forest using multiple constraints. Agricultural and Forest Meteorology, 2007, 145, 48-68.	4.8	38
32	Incorporation of a soil water modifier into MODIS predictions of temperate Douglas-fir gross primary productivity: Initial model development. Agricultural and Forest Meteorology, 2007, 147, 99-109.	4.8	16
33	Air and biomass heat storage fluxes in a forest canopy: Calculation within a soil vegetation atmosphere transfer model. Agricultural and Forest Meteorology, 2007, 147, 125-139.	4.8	100
34	Regional evaporation estimates from flux tower and MODIS satellite data. Remote Sensing of Environment, 2007, 106, 285-304.	11.0	623
35	Estimating parameters in a land-surface model by applying nonlinear inversion to eddy covariance flux measurements from eight FLUXNET sites. Global Change Biology, 2007, 13, 652-670.	9.5	144
36	Nocturnal carbon efflux: reconciliation of eddy covariance and chamber measurements using an alternative to the u-threshold filtering technique. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 397-403.	1.6	113

#	ARTICLE	IF	CITATIONS
37	The correct form of the Webb, Pearman and Leuning equation for eddy fluxes of trace gases in steady and non-steady state, horizontally homogeneous flows. <i>Boundary-Layer Meteorology</i> , 2007, 123, 263-267.	2.3	84
38	Ions and Charged Aerosol Particles in a Native Australian Eucalypt Forest. , 2007, , 902-905.		1
39	Neural Error Regression Diagnosis (NERD): A Tool for Model Bias Identification and Prognostic Data Assimilation. <i>Journal of Hydrometeorology</i> , 2006, 7, 160-177.	1.9	31
40	A multi-angle spectrometer for automatic measurement of plant canopy reflectance spectra. <i>Remote Sensing of Environment</i> , 2006, 103, 236-245.	11.0	41
41	The utility of the eddy covariance techniques as a tool in carbon accounting: tropical savanna as a case study. <i>Australian Journal of Botany</i> , 2005, 53, 663.	0.6	69
42	Carbon and water fluxes over a temperate Eucalyptus forest and a tropical wet/dry savanna in Australia: measurements and comparison with MODIS remote sensing estimates. <i>Agricultural and Forest Meteorology</i> , 2005, 129, 151-173.	4.8	322
43	Measurements of Trace Gas Fluxes in the Atmosphere Using Eddy Covariance: WPL Corrections Revisited. , 2004, , 119-132.		24
44	Parameter estimation in surface exchange models using nonlinear inversion: how many parameters can we estimate and which measurements are most useful?. <i>Global Change Biology</i> , 2001, 7, 495-510.	9.5	164
45	Carbon dioxide and methane fluxes from an intermittently flooded paddy field. <i>Agricultural and Forest Meteorology</i> , 2000, 102, 287-303.	4.8	176
46	Scaling to a common temperature improves the correlation between the photosynthesis parameters $J_{max}$ and $V_{cmax}$ . <i>Journal of Experimental Botany</i> , 1997, 48, 345-347.	4.8	141
47	The relative merits of open- and closed-path analysers for measurement of eddy fluxes. <i>Global Change Biology</i> , 1996, 2, 241-253.	9.5	188