

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. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
2	Regional evaporation estimates from flux tower and MODIS satellite data. <i>Remote Sensing of Environment</i> , 2007, 106, 285-304.	11.0	623
3	Reflections on the surface energy imbalance problem. <i>Agricultural and Forest Meteorology</i> , 2012, 156, 65-74.	4.8	400
4	A simple surface conductance model to estimate regional evaporation using MODIS leaf area index and the Penman-Monteith equation. <i>Water Resources Research</i> , 2008, 44, .	4.2	351
5	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
6	Scaling of potential evapotranspiration with MODIS data reproduces flux observations and catchment water balance observations across Australia. <i>Journal of Hydrology</i> , 2009, 369, 107-119.	5.4	216
7	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
8	Carbon dioxide and methane fluxes from an intermittently flooded paddy field. <i>Agricultural and Forest Meteorology</i> , 2000, 102, 287-303.	4.8	176
9	Diagnosing errors in a land surface model (CABLE) in the time and frequency domains. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	172
10	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
11	An introduction to the Australian and New Zealand flux tower network "OzFlux". <i>Biogeosciences</i> , 2016, 13, 5895-5916.	3.3	159
12	Evaluating the Performance of Land Surface Models. <i>Journal of Climate</i> , 2008, 21, 5468-5481.	3.2	154
13	Estimating parameters in a land-surface model by applying nonlinear inversion to eddy covariance flux measurements from eight FLUXNET sites. <i>Global Change Biology</i> , 2007, 13, 652-670.	9.5	144
14	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
15	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	5.2	137
16	Using long-term water balances to parameterize surface conductances and calculate evaporation at 0.05° spatial resolution. <i>Water Resources Research</i> , 2010, 46, .	4.2	135
17	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.	4.8	121
18	Evaluation of optical remote sensing to estimate actual evapotranspiration and canopy conductance. <i>Remote Sensing of Environment</i> , 2013, 129, 250-261.	11.0	119

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19	$\delta^{13}\text{C}$ of organic matter transported from the leaves to the roots in <i>Eucalyptus delegatensis</i> : short-term variations and relation to respired CO_2 . <i>Functional Plant Biology</i> , 2007, 34, 692.	2.1	113
20	Nocturnal carbon efflux: reconciliation of eddy covariance and chamber measurements using an alternative to the u-threshold filtering technique. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 397-403.	1.6	113
21	Air and biomass heat storage fluxes in a forest canopy: Calculation within a soil vegetation atmosphere transfer model. <i>Agricultural and Forest Meteorology</i> , 2007, 147, 125-139.	4.8	100
22	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.	4.8	91
23	Decadal Trends in Evaporation from Global Energy and Water Balances. <i>Journal of Hydrometeorology</i> , 2012, 13, 379-391.	1.9	89
24	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
25	Global variation of transpiration and soil evaporation and the role of their major climate drivers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6868-6881.	3.3	77
26	The Eddy Covariance Method. , 2012, , 1-19.		73
27	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
28	Improving evapotranspiration estimates in Mediterranean drylands: The role of soil evaporation. <i>Water Resources Research</i> , 2013, 49, 6572-6586.	4.2	64
29	Measurement of horizontal and vertical advection of CO_2 within a forest canopy. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1777-1797.	4.8	61
30	Documenting improvement in leaf area index estimates from MODIS using hemispherical photos for Australian savannas. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1453-1461.	4.8	56
31	The fundamental equation of eddy covariance and its application in flux measurements. <i>Agricultural and Forest Meteorology</i> , 2012, 152, 135-148.	4.8	56
32	The Turbulent Lagrangian Time Scale in Forest Canopies Constrained by Fluxes, Concentrations and Source Distributions. <i>Boundary-Layer Meteorology</i> , 2009, 130, 209-228.	2.3	54
33	Application of an alternative method to derive reliable estimates of nighttime respiration from eddy covariance measurements in moderately complex topography. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1174-1180.	4.8	53
34	Inferring terrestrial photosynthetic light use efficiency of temperate ecosystems from space. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
35	SPECIAL "Savanna Patterns of Energy and Carbon Integrated across the Landscape. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 1467-1485.	3.3	52
36	Decoupling of air flow above and in plant canopies and gravity waves affect micrometeorological estimates of net scalar exchange. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 927-933.	4.8	48

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37	Testing Lagrangian atmospheric dispersion modelling to monitor CO ₂ and CH ₄ leakage from geosequestration. <i>Atmospheric Environment</i> , 2009, 43, 2602-2611.	4.1	46
38	Global vegetation gross primary production estimation using satellite-derived light-use efficiency and canopy conductance. <i>Remote Sensing of Environment</i> , 2015, 163, 206-216.	11.0	43
39	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
40	Modelling net ecosystem carbon and water exchange of a temperate <i>Eucalyptus delegatensis</i> forest using multiple constraints. <i>Agricultural and Forest Meteorology</i> , 2007, 145, 48-68.	4.8	38
41	Atmospheric Tomography: A Bayesian Inversion Technique for Determining the Rate and Location of Fugitive Emissions. <i>Environmental Science & Technology</i> , 2012, 46, 1739-1746.	10.0	33
42	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
43	Measurements of Trace Gas Fluxes in the Atmosphere Using Eddy Covariance: WPL Corrections Revisited. , 2004, , 119-132.		24
44	Locating and quantifying greenhouse gas emissions at a geological CO ₂ storage site using atmospheric modeling and measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,959-10,979.	3.3	22
45	Incorporation of a soil water modifier into MODIS predictions of temperate Douglas-fir gross primary productivity: Initial model development. <i>Agricultural and Forest Meteorology</i> , 2007, 147, 99-109.	4.8	16
46	Atmospheric tomography to locate CO ₂ leakage at storage sites. <i>Energy Procedia</i> , 2011, 4, 3502-3509.	1.8	7
47	Ions and Charged Aerosol Particles in a Native Australian Eucalypt Forest. , 2007, , 902-905.		1