

Lukas Hrtnagl

List of Publications by Citations

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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.

61
papers

1,677
citations

25
h-index

39
g-index

69
ext. papers

2,230
ext. citations

5.5
avg, IF

4.01
L-index

#	Paper	IF	Citations
61	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225	8.2	256
60	First eddy covariance flux measurements by PTR-TOF. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 387-395	4	108
59	Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11,	6.8	90
58	Interpreting canopy development and physiology using a European phenology camera network at flux sites. <i>Biogeosciences</i> , 2015 , 12, 5995-6015	4.6	77
57	Carbonyl sulfide (COS) as a tracer for canopy photosynthesis, transpiration and stomatal conductance: potential and limitations. <i>Plant, Cell and Environment</i> , 2012 , 35, 657-67	8.4	59
56	On the consequences of the energy imbalance for calculating surface conductance to water vapour. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 1556-1559	5.8	58
55	Qualitative and quantitative characterization of volatile organic compound emissions from cut grass. <i>Environmental Science & Technology</i> , 2012 , 46, 3859-65	10.3	53
54	Standardisation of eddy-covariance flux measurements of methane and nitrous oxide. <i>International Agrophysics</i> , 2018 , 32, 517-549	2	51
53	Greenhouse gas fluxes over managed grasslands in Central Europe. <i>Global Change Biology</i> , 2018 , 24, 1843-1872	11.4	44
52	ICOS eddy covariance flux-station site setup: a review. <i>International Agrophysics</i> , 2018 , 32, 471-494	2	42
51	Quantifying the effect of forest age in annual net forest carbon balance. <i>Environmental Research Letters</i> , 2018 , 13, 124018	6.2	41
50	Towards long-term standardised carbon and greenhouse gas observations for monitoring European terrestrial ecosystems: a review. <i>International Agrophysics</i> , 2018 , 32, 439-455	2	39
49	Modelling changes in grassland hydrological cycling along an elevational gradient in the Alps. <i>Ecohydrology</i> , 2014 , 7, 1453-1473	2.5	38
48	Insights from Independent Evapotranspiration Estimates for Closing the Energy Balance: A Grassland Case Study. <i>Vadose Zone Journal</i> , 2010 , 9, 1025-1033	2.7	37
47	BVOC fluxes above mountain grassland. <i>Biogeosciences</i> , 2010 , 7,	4.6	36
46	Deposition Fluxes of Terpenes over Grassland. <i>Journal of Geophysical Research</i> , 2011 , 116,		35
45	Estimating carbon dioxide fluxes from temperate mountain grasslands using broad-band vegetation indices. <i>Biogeosciences</i> , 2010 , 7, 683-694	4.6	35

44	Eddy covariance raw data processing for CO ₂ and energy fluxes calculation at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018 , 32, 495-515	2	33
43	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
42	Management matters: testing a mitigation strategy for nitrous oxide emissions using legumes on intensively managed grassland. <i>Biogeosciences</i> , 2018 , 15, 5519-5543	4.6	31
41	Leaf and ecosystem response to soil water availability in mountain grasslands. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1731-1740	5.8	29
40	Below-canopy contributions to ecosystem CO ₂ fluxes in a temperate mixed forest in Switzerland. <i>Agricultural and Forest Meteorology</i> , 2017 , 247, 582-596	5.8	27
39	Estimation of high-resolution terrestrial evapotranspiration from Landsat data using a simple Taylor skill fusion method. <i>Journal of Hydrology</i> , 2017 , 553, 508-526	6	26
38	Biotic, abiotic and management controls on methanol exchange above a temperate mountain grassland. <i>Journal of Geophysical Research</i> , 2011 , 116,		26
37	An ecosystem-scale perspective of the net land methanol flux: synthesis of micrometeorological flux measurements. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2577-2613	6.8	25
36	Dealing with disjunct concentration measurements in eddy covariance applications: a comparison of available approaches. <i>Atmospheric Environment</i> , 2010 , 44,	5.3	25
35	Methane and nitrous oxide exchange over a managed hay meadow. <i>Biogeosciences</i> , 2014 , 11, 7219-7236	4.6	24
34	Canopy photosynthesis of six major arable crops is enhanced under diffuse light due to canopy architecture. <i>Global Change Biology</i> , 2020 , 26, 5164-5177	11.4	23
33	Ecosystem-scale biosphere-atmosphere interactions of a hemiboreal mixed forest stand at Jõvelja, Estonia. <i>Forest Ecology and Management</i> , 2011 , 262, 71-81	3.9	23
32	FLUXNET-CH&sub4: 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
31	Eddy covariance flux measurements of gaseous elemental mercury using cavity ring-down spectroscopy. <i>Environmental Science & Technology</i> , 2015 , 49, 1559-68	10.3	20
30	Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190524	5.8	18
29	Ancillary vegetation measurements at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018 , 32, 645-664		15
28	Physiological response of Swiss ecosystems to 2018 drought across plant types and elevation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190521	5.8	14
27	Tradeoffs between global warming and day length on the start of the carbon uptake period in seasonally cold ecosystems. <i>Geophysical Research Letters</i> , 2013 , 40, 6136-6142	4.9	12

26	Measuring eddy covariance fluxes of ozone with a slow-response analyser. <i>Atmospheric Environment</i> , 2009 , 43, 4570-4570	5.3	12
25	Integrated management of a Swiss cropland is not sufficient to preserve its soil carbon pool in the long term. <i>Biogeosciences</i> , 2018 , 15, 5377-5393	4.6	12
24	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
23	Quantifying deforestation and forest degradation with thermal response. <i>Science of the Total Environment</i> , 2017 , 607-608, 1286-1292	10.2	11
22	Assimilating phenology datasets automatically across ICOS ecosystem stations. <i>International Agrophysics</i> , 2018 , 32, 677-687	2	11
21	Gap-filling strategies for annual VOC flux data sets. <i>Biogeosciences</i> , 2014 , 11, 2429-2442	4.6	10
20	Soil-meteorological measurements at ICOS monitoring stations in terrestrial ecosystems. <i>International Agrophysics</i> , 2018 , 32, 619-631	2	9
19	Global maps of soil temperature.. <i>Global Change Biology</i> , 2021 ,	11.4	8
18	Importance of reporting ancillary site characteristics, and management and disturbance information at ICOS stations. <i>International Agrophysics</i> , 2018 , 32, 457-469	2	6
17	Acetaldehyde exchange above a managed temperate mountain grassland. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5369-5391	6.8	5
16	Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF		5
15	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
14	Stomatal response to decreased relative humidity constrains the acceleration of terrestrial evapotranspiration. <i>Environmental Research Letters</i> , 2020 , 15, 094066	6.2	4
13	Acetaldehyde exchange above a managed temperate mountain grassland 2013 , 13,		4
12	Gap-filling strategies for annual VOC flux data sets. <i>Pr@fono: Revista De Atualiza@o Cient@fica</i> , 2013 , 10,		4
11	Improved global estimations of gross primary productivity of natural vegetation types by incorporating plant functional type. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021 , 100, 102328	7.3	4
10	Estimating cropland carbon fluxes: A process-based model evaluation at a Swiss crop-rotation site. <i>Field Crops Research</i> , 2019 , 234, 95-106	5.5	3
9	FLUXNET-CH4: A global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands		3

8	Carbon dioxide fluxes of a mountain grassland: Drivers, anomalies and annual budgets. <i>Agricultural and Forest Meteorology</i> , 2022 , 314, 108801	5.8	2
7	Management matters: Testing a mitigation strategy for nitrous oxide emissions on intensively managed grassland		2
6	Long term BVOC fluxes above mountain grassland		2
5	First eddy covariance flux measurements by PTR-TOF		1
4	Are there memory effects on greenhouse gas emissions (CO ₂ , N ₂ O and CH ₄) following grassland restoration?. <i>Biogeosciences</i> , 2021 , 18, 1481-1498	4.6	1
3	Interannual and spatial variability of net ecosystem production in forests explained by an integrated physiological indicator in summer. <i>Ecological Indicators</i> , 2021 , 129, 107982	5.8	1
2	DYCO: A Python package to dynamically detect and compensate for time lags in ecosystem time series. <i>Journal of Open Source Software</i> , 2021 , 6, 2575	5.2	
1	Relationship of leaf elongation rate of young wheat leaves, gross primary productivity and environmental variables in the field with hourly and daily temporal resolution. <i>Agricultural and Forest Meteorology</i> , 2022 , 320, 108902	5.8	