## Lukas Hörtnagl

List of Publications by Year in descending order

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Likas ΗΔΩστνίας

#	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	First eddy covariance flux measurements by PTR-TOF. Atmospheric Measurement Techniques, 2010, 3, 387-395.	3.1	117
3	Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144.	9.5	113
4	Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF. Atmospheric Chemistry and Physics, 2011, 11, 611-625.	4.9	104
5	Interpreting canopy development and physiology using a European phenology camera network at flux sites. Biogeosciences, 2015, 12, 5995-6015.	3.3	98
6	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. Global Change Biology, 2020, 26, 6916-6930.	9.5	97
7	FLUXNET-CH <sub>4</sub> : a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. Earth System Science Data, 2021, 13, 3607-3689.	9.9	79
8	Carbonyl sulfide (COS) as a tracer for canopy photosynthesis, transpiration and stomatal conductance: potential and limitationsâ€. Plant, Cell and Environment, 2012, 35, 657-667.	5.7	74
9	On the consequences of the energy imbalance for calculating surface conductance to water vapour. Agricultural and Forest Meteorology, 2009, 149, 1556-1559.	4.8	71
10	Quantifying the effect of forest age in annual net forest carbon balance. Environmental Research Letters, 2018, 13, 124018.	5.2	67
11	Standardisation of eddy-covariance flux measurements of methane and nitrous oxide. International Agrophysics, 2018, 32, 517-549.	1.7	66
12	Qualitative and Quantitative Characterization of Volatile Organic Compound Emissions from Cut Grass. Environmental Science & Technology, 2012, 46, 3859-3865.	10.0	63
13	Greenhouse gas fluxes over managed grasslands in Central Europe. Global Change Biology, 2018, 24, 1843-1872.	9.5	63
14	Eddy covariance raw data processing for CO2 and energy fluxes calculation at ICOS ecosystem stations. International Agrophysics, 2018, 32, 495-515.	1.7	62
15	ICOS eddy covariance flux-station site setup: a review. International Agrophysics, 2018, 32, 471-494.	1.7	59
16	Towards long-term standardised carbon and greenhouse gas observations for monitoring Europe's terrestrial ecosystems: a review. International Agrophysics, 2018, 32, 439-455.	1.7	55
17	Insights from Independent Evapotranspiration Estimates for Closing the Energy Balance: A Grassland Case Study. Vadose Zone Journal, 2010, 9, 1025-1033.	2.2	53
18	Canopy photosynthesis of six major arable crops is enhanced under diffuse light due to canopy architecture. Global Change Biology, 2020, 26, 5164-5177.	9.5	48

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19	BVOC fluxes above mountain grassland. Biogeosciences, 2010, 7, 1413-1424.	3.3	43
20	Physiological response of Swiss ecosystems to 2018 drought across plant types and elevation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190521.	4.0	42
21	Estimating carbon dioxide fluxes from temperate mountain grasslands using broad-band vegetation indices. Biogeosciences, 2010, 7, 683-694.	3.3	41
22	Modelling changes in grassland hydrological cycling along an elevational gradient in the Alps. Ecohydrology, 2014, 7, 1453-1473.	2.4	41
23	Estimation of high-resolution terrestrial evapotranspiration from Landsat data using a simple Taylor skill fusion method. Journal of Hydrology, 2017, 553, 508-526.	5.4	41
24	Management matters: testing a mitigation strategy for nitrous oxide emissions using legumes on intensively managed grassland. Biogeosciences, 2018, 15, 5519-5543.	3.3	40
25	Deposition fluxes of terpenes over grassland. Journal of Geophysical Research, 2011, 116, .	3.3	37
26	Below-canopy contributions to ecosystem CO 2 fluxes in a temperate mixed forest in Switzerland. Agricultural and Forest Meteorology, 2017, 247, 582-596.	4.8	37
27	Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190524.	4.0	35
28	Ancillary vegetation measurements at ICOS ecosystem stations. International Agrophysics, 2018, 32, 645-664.	1.7	35
29	Leaf and ecosystem response to soil water availability in mountain grasslands. Agricultural and Forest Meteorology, 2011, 151, 1731-1740.	4.8	34
30	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.	4.8	33
31	Dealing with disjunct concentration measurements in eddy covariance applications: A comparison of available approaches. Atmospheric Environment, 2010, 44, 2024-2032.	4.1	31
32	Ecosystem-scale biosphere–atmosphere interactions of a hemiboreal mixed forest stand at Jävselja, Estonia. Forest Ecology and Management, 2011, 262, 71-81.	3.2	31
33	An ecosystem-scale perspective of the net land methanol flux: synthesis of micrometeorological flux measurements. Atmospheric Chemistry and Physics, 2015, 15, 7413-7427.	4.9	31
34	Methane and nitrous oxide exchange over a managed hay meadow. Biogeosciences, 2014, 11, 7219-7236.	3.3	29
35	Biotic, abiotic, and management controls on methanol exchange above a temperate mountain grassland. Journal of Geophysical Research, 2011, 116, .	3.3	28
36	Integrated management of a Swiss cropland is not sufficient to preserve its soil carbon pool in the long term. Biogeosciences, 2018, 15, 5377-5393.	3.3	24

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37	Eddy Covariance Flux Measurements of Gaseous Elemental Mercury Using Cavity Ring-Down Spectroscopy. Environmental Science & Technology, 2015, 49, 1559-1568.	10.0	22
38	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. Global Ecology and Biogeography, 2019, 28, 1351-1365.	5.8	22
39	Stomatal response to decreased relative humidity constrains the acceleration of terrestrial evapotranspiration. Environmental Research Letters, 2020, 15, 094066.	5.2	18
40	Quantifying deforestation and forest degradation with thermal response. Science of the Total Environment, 2017, 607-608, 1286-1292.	8.0	16
41	Tradeâ€offs between global warming and day length on the start of the carbon uptake period in seasonally cold ecosystems. Geophysical Research Letters, 2013, 40, 6136-6142.	4.0	14
42	Soil-meteorological measurements at ICOS monitoring stations in terrestrial ecosystems. International Agrophysics, 2018, 32, 619-631.	1.7	14
43	Assimilating phenology datasets automatically across ICOS ecosystem stations. International Agrophysics, 2018, 32, 677-687.	1.7	14
44	Gap-filling strategies for annual VOC flux data sets. Biogeosciences, 2014, 11, 2429-2442.	3.3	13
45	Measuring eddy covariance fluxes of ozone with a slow-response analyser. Atmospheric Environment, 2009, 43, 4570-4576.	4.1	12
46	Carbon dioxide fluxes of a mountain grassland: Drivers, anomalies and annual budgets. Agricultural and Forest Meteorology, 2022, 314, 108801.	4.8	11
47	Improved global estimations of gross primary productivity of natural vegetation types by incorporating plant functional type. International Journal of Applied Earth Observation and Geoinformation, 2021, 100, 102328.	2.8	8
48	Importance of reporting ancillary site characteristics, and management and disturbance information at ICOS stations. International Agrophysics, 2018, 32, 457-469.	1.7	8
49	Estimating cropland carbon fluxes: A process-based model evaluation at a Swiss crop-rotation site. Field Crops Research, 2019, 234, 95-106.	5.1	7
50	Are there memory effects on greenhouse gas emissions (CO <sub>2</sub> ,) Tj ETQ following grassland restoration?. Biogeosciences, 2021, 18, 1481-1498.	9q0 0 0 rgl 3.3	3T /Overlock 7
51	Interannual and spatial variability of net ecosystem production in forests explained by an integrated physiological indicator in summer. Ecological Indicators, 2021, 129, 107982.	6.3	7
52	Acetaldehyde exchange above a managed temperate mountain grassland. Atmospheric Chemistry and Physics, 2014, 14, 5369-5391.	4.9	6
53	Acetaldehyde exchange above a managed temperate mountain grassland. , 2013, 13, .		6

54 Gap-filling strategies for annual VOC flux data sets. , 2013, 10, .

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#	Article	IF	CITATIONS
55	Relationship of leaf elongation rate of young wheat leaves, gross primary productivity and environmental variables in the field with hourly and daily temporal resolution. Agricultural and Forest Meteorology, 2022, 320, 108902.	4.8	1
56	DYCO: A Python package to dynamically detect and compensate for time lags in ecosystem time series. Journal of Open Source Software, 2021, 6, 2575.	4.6	0
57	Multiple constraints on grassland evapotranspiration: implications for closing the energy balance. Vadose Zone Journal, 2010, 9, .	2.2	0