

Lukas HÄŕtnagl

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,848
citations

159358

30
h-index

182168

51
g-index

69
all docs

69
docs citations

69
times ranked

4335
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.	2.4	646
2	First eddy covariance flux measurements by PTR-TOF. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 387-395.	1.2	117
3	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	4.2	113
4	Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 611-625.	1.9	104
5	Interpreting canopy development and physiology using a European phenology camera network at flux sites. <i>Biogeosciences</i> , 2015, 12, 5995-6015.	1.3	98
6	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020, 26, 6916-6930.	4.2	97
7	FLUXNET-CH<sub>4</sub>: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021, 13, 3607-3689.	3.7	79
8	Carbonyl sulfide (COS) as a tracer for canopy photosynthesis, transpiration and stomatal conductance: potential and limitationsâ€. <i>Plant, Cell and Environment</i> , 2012, 35, 657-667.	2.8	74
9	On the consequences of the energy imbalance for calculating surface conductance to water vapour. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1556-1559.	1.9	71
10	Quantifying the effect of forest age in annual net forest carbon balance. <i>Environmental Research Letters</i> , 2018, 13, 124018.	2.2	67
11	Standardisation of eddy-covariance flux measurements of methane and nitrous oxide. <i>International Agrophysics</i> , 2018, 32, 517-549.	0.7	66
12	Qualitative and Quantitative Characterization of Volatile Organic Compound Emissions from Cut Grass. <i>Environmental Science & Technology</i> , 2012, 46, 3859-3865.	4.6	63
13	Greenhouse gas fluxes over managed grasslands in Central Europe. <i>Global Change Biology</i> , 2018, 24, 1843-1872.	4.2	63
14	Eddy covariance raw data processing for CO2 and energy fluxes calculation at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 495-515.	0.7	62
15	ICOS eddy covariance flux-station site setup: a review. <i>International Agrophysics</i> , 2018, 32, 471-494.	0.7	59
16	Towards long-term standardised carbon and greenhouse gas observations for monitoring Europeâ€™s terrestrial ecosystems: a review. <i>International Agrophysics</i> , 2018, 32, 439-455.	0.7	55
17	Insights from Independent Evapotranspiration Estimates for Closing the Energy Balance: A Grassland Case Study. <i>Vadose Zone Journal</i> , 2010, 9, 1025-1033.	1.3	53
18	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.	4.2	48

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19	BVOC fluxes above mountain grassland. <i>Biogeosciences</i> , 2010, 7, 1413-1424.	1.3	43
20	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.	1.8	42
21	Estimating carbon dioxide fluxes from temperate mountain grasslands using broad-band vegetation indices. <i>Biogeosciences</i> , 2010, 7, 683-694.	1.3	41
22	Modelling changes in grassland hydrological cycling along an elevational gradient in the Alps. <i>Ecohydrology</i> , 2014, 7, 1453-1473.	1.1	41
23	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.	2.3	41
24	Management matters: testing a mitigation strategy for nitrous oxide emissions using legumes on intensively managed grassland. <i>Biogeosciences</i> , 2018, 15, 5519-5543.	1.3	40
25	Deposition fluxes of terpenes over grassland. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	37
26	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.	1.9	37
27	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.	1.8	35
28	Ancillary vegetation measurements at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 645-664.	0.7	35
29	Leaf and ecosystem response to soil water availability in mountain grasslands. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1731-1740.	1.9	34
30	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH ₄ wetlands. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108528.	1.9	33
31	Dealing with disjunct concentration measurements in eddy covariance applications: A comparison of available approaches. <i>Atmospheric Environment</i> , 2010, 44, 2024-2032.	1.9	31
32	Ecosystem-scale biosphere-atmosphere interactions of a hemiboreal mixed forest stand at Järvelja, Estonia. <i>Forest Ecology and Management</i> , 2011, 262, 71-81.	1.4	31
33	An ecosystem-scale perspective of the net land methanol flux: synthesis of micrometeorological flux measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7413-7427.	1.9	31
34	Methane and nitrous oxide exchange over a managed hay meadow. <i>Biogeosciences</i> , 2014, 11, 7219-7236.	1.3	29
35	Biotic, abiotic, and management controls on methanol exchange above a temperate mountain grassland. <i>Journal of Geophysical Research</i> , 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. <i>Biogeosciences</i> , 2018, 15, 5377-5393.	1.3	24

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37	Eddy Covariance Flux Measurements of Gaseous Elemental Mercury Using Cavity Ring-Down Spectroscopy. <i>Environmental Science & Technology</i> , 2015, 49, 1559-1568.	4.6	22
38	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019, 28, 1351-1365.	2.7	22
39	Stomatal response to decreased relative humidity constrains the acceleration of terrestrial evapotranspiration. <i>Environmental Research Letters</i> , 2020, 15, 094066.	2.2	18
40	Quantifying deforestation and forest degradation with thermal response. <i>Science of the Total Environment</i> , 2017, 607-608, 1286-1292.	3.9	16
41	Trade-offs 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.	1.5	14
42	Soil-meteorological measurements at ICOS monitoring stations in terrestrial ecosystems. <i>International Agrophysics</i> , 2018, 32, 619-631.	0.7	14
43	Assimilating phenology datasets automatically across ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 677-687.	0.7	14
44	Gap-filling strategies for annual VOC flux data sets. <i>Biogeosciences</i> , 2014, 11, 2429-2442.	1.3	13
45	Measuring eddy covariance fluxes of ozone with a slow-response analyser. <i>Atmospheric Environment</i> , 2009, 43, 4570-4576.	1.9	12
46	Carbon dioxide fluxes of a mountain grassland: Drivers, anomalies and annual budgets. <i>Agricultural and Forest Meteorology</i> , 2022, 314, 108801.	1.9	11
47	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.	1.4	8
48	Importance of reporting ancillary site characteristics, and management and disturbance information at ICOS stations. <i>International Agrophysics</i> , 2018, 32, 457-469.	0.7	8
49	Estimating cropland carbon fluxes: A process-based model evaluation at a Swiss crop-rotation site. <i>Field Crops Research</i> , 2019, 234, 95-106.	2.3	7
50	Are there memory effects on greenhouse gas emissions (CO ₂ and CH ₄) following grassland restoration?. <i>Biogeosciences</i> , 2021, 18, 1481-1498.	1.3	7
51	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.	2.6	7
52	Acetaldehyde exchange above a managed temperate mountain grassland. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5369-5391.	1.9	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, .		5

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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. <i>Agricultural and Forest Meteorology</i> , 2022, 320, 108902.	1.9	1
56	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.	2.0	0
57	Multiple constraints on grassland evapotranspiration: implications for closing the energy balance. <i>Vadose Zone Journal</i> , 2010, 9, .	1.3	0