

Lukas Härtznagl

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,848
citations

159585

30
h-index

182427

51
g-index

69
all docs

69
docs citations

69
times ranked

4335
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon dioxide fluxes of a mountain grassland: Drivers, anomalies and annual budgets. Agricultural and Forest Meteorology, 2022, 314, 108801.	4.8	11
2	Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144.	9.5	113
3	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
4	Are there memory effects on greenhouse gas emissions (CO ₂ and CH ₄) following grassland restoration?. Biogeosciences, 2021, 18, 1481-1498.	3.3	7
5	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
6	FLUXNET-CH ₄ : a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. Earth System Science Data, 2021, 13, 3607-3689.	9.9	79
7	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
8	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
9	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH ₄ wetlands. Agricultural and Forest Meteorology, 2021, 308-309, 108528.	4.8	33
10	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. Global Change Biology, 2020, 26, 6916-6930.	9.5	97
11	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
12	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
13	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
14	Stomatal response to decreased relative humidity constrains the acceleration of terrestrial evapotranspiration. Environmental Research Letters, 2020, 15, 094066.	5.2	18
15	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
16	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
17	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
18	Greenhouse gas fluxes over managed grasslands in Central Europe. Global Change Biology, 2018, 24, 1843-1872.	9.5	63

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19	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.	3.3	24
20	Quantifying the effect of forest age in annual net forest carbon balance. <i>Environmental Research Letters</i> , 2018, 13, 124018.	5.2	67
21	Management matters: testing a mitigation strategy for nitrous oxide emissions using legumes on intensively managed grassland. <i>Biogeosciences</i> , 2018, 15, 5519-5543.	3.3	40
22	Towards long-term standardised carbon and greenhouse gas observations for monitoring Europe's terrestrial ecosystems: a review. <i>International Agrophysics</i> , 2018, 32, 439-455.	1.7	55
23	Importance of reporting ancillary site characteristics, and management and disturbance information at ICOS stations. <i>International Agrophysics</i> , 2018, 32, 457-469.	1.7	8
24	Soil-meteorological measurements at ICOS monitoring stations in terrestrial ecosystems. <i>International Agrophysics</i> , 2018, 32, 619-631.	1.7	14
25	Standardisation of eddy-covariance flux measurements of methane and nitrous oxide. <i>International Agrophysics</i> , 2018, 32, 517-549.	1.7	66
26	Eddy covariance raw data processing for CO ₂ and energy fluxes calculation at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 495-515.	1.7	62
27	ICOS eddy covariance flux-station site setup: a review. <i>International Agrophysics</i> , 2018, 32, 471-494.	1.7	59
28	Ancillary vegetation measurements at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 645-664.	1.7	35
29	Assimilating phenology datasets automatically across ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 677-687.	1.7	14
30	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.	4.8	37
31	Quantifying deforestation and forest degradation with thermal response. <i>Science of the Total Environment</i> , 2017, 607-608, 1286-1292.	8.0	16
32	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.	5.4	41
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.	4.9	31
34	Interpreting canopy development and physiology using a European phenology camera network at flux sites. <i>Biogeosciences</i> , 2015, 12, 5995-6015.	3.3	98
35	Eddy Covariance Flux Measurements of Gaseous Elemental Mercury Using Cavity Ring-Down Spectroscopy. <i>Environmental Science & Technology</i> , 2015, 49, 1559-1568.	10.0	22
36	Methane and nitrous oxide exchange over a managed hay meadow. <i>Biogeosciences</i> , 2014, 11, 7219-7236.	3.3	29

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37	Gap-filling strategies for annual VOC flux data sets. Biogeosciences, 2014, 11, 2429-2442.	3.3	13
38	Modelling changes in grassland hydrological cycling along an elevational gradient in the Alps. Ecohydrology, 2014, 7, 1453-1473.	2.4	41
39	Acetaldehyde exchange above a managed temperate mountain grassland. Atmospheric Chemistry and Physics, 2014, 14, 5369-5391.	4.9	6
40	Trade-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
41	Acetaldehyde exchange above a managed temperate mountain grassland. , 2013, 13, .		6
42	Gap-filling strategies for annual VOC flux data sets. , 2013, 10, .		5
43	Qualitative and Quantitative Characterization of Volatile Organic Compound Emissions from Cut Grass. Environmental Science & Technology, 2012, 46, 3859-3865.	10.0	63
44	Carbonyl sulfide (COS) as a tracer for canopy photosynthesis, transpiration and stomatal conductance: potential and limitations. Plant, Cell and Environment, 2012, 35, 657-667.	5.7	74
45	Deposition fluxes of terpenes over grassland. Journal of Geophysical Research, 2011, 116, .	3.3	37
46	Biotic, abiotic, and management controls on methanol exchange above a temperate mountain grassland. Journal of Geophysical Research, 2011, 116, .	3.3	28
47	Leaf and ecosystem response to soil water availability in mountain grasslands. Agricultural and Forest Meteorology, 2011, 151, 1731-1740.	4.8	34
48	Ecosystem-scale biosphere-atmosphere interactions of a hemiboreal mixed forest stand at Järvelja, Estonia. Forest Ecology and Management, 2011, 262, 71-81.	3.2	31
49	Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF. Atmospheric Chemistry and Physics, 2011, 11, 611-625.	4.9	104
50	Dealing with disjunct concentration measurements in eddy covariance applications: A comparison of available approaches. Atmospheric Environment, 2010, 44, 2024-2032.	4.1	31
51	Insights from Independent Evapotranspiration Estimates for Closing the Energy Balance: A Grassland Case Study. Vadose Zone Journal, 2010, 9, 1025-1033.	2.2	53
52	Estimating carbon dioxide fluxes from temperate mountain grasslands using broad-band vegetation indices. Biogeosciences, 2010, 7, 683-694.	3.3	41
53	First eddy covariance flux measurements by PTR-TOF. Atmospheric Measurement Techniques, 2010, 3, 387-395.	3.1	117
54	BVOC fluxes above mountain grassland. Biogeosciences, 2010, 7, 1413-1424.	3.3	43

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55	Multiple constraints on grassland evapotranspiration: implications for closing the energy balance. Vadose Zone Journal, 2010, 9, .	2.2	0
56	Measuring eddy covariance fluxes of ozone with a slow-response analyser. Atmospheric Environment, 2009, 43, 4570-4576.	4.1	12
57	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