

Lukas Hrtnagl

List of Publications by Year in Descending Order

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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 | Carbon dioxide fluxes of a mountain grassland: Drivers, anomalies and annual budgets. <i>Agricultural and Forest Meteorology</i> , 2022 , 314, 108801 | 5.8 | 2 |
| 60 | 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 | |
| 59 | Global maps of soil temperature.. <i>Global Change Biology</i> , 2021 , | 11.4 | 8 |
| 58 | 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 | |
| 57 | FLUXNET-CH ₄ : 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 | 5.8 | 5 |
| 52 | Stomatal response to decreased relative humidity constrains the acceleration of terrestrial evapotranspiration. <i>Environmental Research Letters</i> , 2020 , 15, 094066 | 6.2 | 4 |
| 51 | 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 |
| 50 | 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 |
| 49 | The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225 | 8.2 | 256 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |

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| 44 | Greenhouse gas fluxes over managed grasslands in Central Europe. <i>Global Change Biology</i> , 2018 , 24, 1843-1872 | 11.4 | 44 |
| 43 | 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 |
| 42 | Importance of reporting ancillary site characteristics, and management and disturbance information at ICOS stations. <i>International Agrophysics</i> , 2018 , 32, 457-469 | 2 | 6 |
| 41 | Soil-meteorological measurements at ICOS monitoring stations in terrestrial ecosystems. <i>International Agrophysics</i> , 2018 , 32, 619-631 | 2 | 9 |
| 40 | Standardisation of eddy-covariance flux measurements of methane and nitrous oxide. <i>International Agrophysics</i> , 2018 , 32, 517-549 | 2 | 51 |
| 39 | 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 |
| 38 | ICOS eddy covariance flux-station site setup: a review. <i>International Agrophysics</i> , 2018 , 32, 471-494 | 2 | 42 |
| 37 | Ancillary vegetation measurements at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018 , 32, 645-664 | 15 | |
| 36 | Assimilating phenology datasets automatically across ICOS ecosystem stations. <i>International Agrophysics</i> , 2018 , 32, 677-687 | 2 | 11 |
| 35 | 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 |
| 34 | Quantifying the effect of forest age in annual net forest carbon balance. <i>Environmental Research Letters</i> , 2018 , 13, 124018 | 6.2 | 41 |
| 33 | 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 |
| 32 | 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 |
| 31 | Quantifying deforestation and forest degradation with thermal response. <i>Science of the Total Environment</i> , 2017 , 607-608, 1286-1292 | 10.2 | 11 |
| 30 | 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 |
| 29 | 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 |
| 28 | Interpreting canopy development and physiology using a European phenology camera network at flux sites. <i>Biogeosciences</i> , 2015 , 12, 5995-6015 | 4.6 | 77 |
| 27 | 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 |

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|----|--|------|-----|
| 26 | Acetaldehyde exchange above a managed temperate mountain grassland. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5369-5391 | 6.8 | 5 |
| 25 | Methane and nitrous oxide exchange over a managed hay meadow. <i>Biogeosciences</i> , 2014 , 11, 7219-7236 | 4.6 | 24 |
| 24 | Gap-filling strategies for annual VOC flux data sets. <i>Biogeosciences</i> , 2014 , 11, 2429-2442 | 4.6 | 10 |
| 23 | Modelling changes in grassland hydrological cycling along an elevational gradient in the Alps. <i>Ecohydrology</i> , 2014 , 7, 1453-1473 | 2.5 | 38 |
| 22 | 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 |
| 21 | Acetaldehyde exchange above a managed temperate mountain grassland 2013 , 13, | | 4 |
| 20 | Gap-filling strategies for annual VOC flux data sets. <i>Prifono: Revista De Atualizaçã Científica</i> , 2013 , 10, | | 4 |
| 19 | Qualitative and quantitative characterization of volatile organic compound emissions from cut grass. <i>Environmental Science & Technology</i> , 2012 , 46, 3859-65 | 10.3 | 53 |
| 18 | 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 |
| 17 | Deposition Fluxes of Terpenes over Grassland. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 35 |
| 16 | Biotic, abiotic and management controls on methanol exchange above a temperate mountain grassland. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 26 |
| 15 | Leaf and ecosystem response to soil water availability in mountain grasslands. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1731-1740 | 5.8 | 29 |
| 14 | 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 |
| 13 | Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, | 6.8 | 90 |
| 12 | 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 |
| 11 | Estimating carbon dioxide fluxes from temperate mountain grasslands using broad-band vegetation indices. <i>Biogeosciences</i> , 2010 , 7, 683-694 | 4.6 | 35 |
| 10 | First eddy covariance flux measurements by PTR-TOF. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 387-395 | 4 | 108 |
| 9 | BVOC fluxes above mountain grassland. <i>Biogeosciences</i> , 2010 , 7, | 4.6 | 36 |

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| 8 | Dealing with disjunct concentration measurements in eddy covariance applications: a comparison of available approaches. <i>Atmospheric Environment</i> , 2010 , 44, | 5.3 | 25 |
| 7 | Measuring eddy covariance fluxes of ozone with a slow-response analyser. <i>Atmospheric Environment</i> , 2009 , 43, 4570-4570 | 5.3 | 12 |
| 6 | 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 |
| 5 | Eddy covariance VOC emission and deposition fluxes above grassland using PTR-TOF | | 5 |
| 4 | First eddy covariance flux measurements by PTR-TOF | | 1 |
| 3 | Management matters: Testing a mitigation strategy for nitrous oxide emissions on intensively managed grassland | | 2 |
| 2 | Long term BVOC fluxes above mountain grassland | | 2 |
| 1 | FLUXNET-CH ₄ : A global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands | | 3 |