

Manuel Helbig

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,948
citations

331538

21
h-index

345118

36
g-index

39
all docs

39
docs citations

39
times ranked

3065
citing authors

#	ARTICLE	IF	CITATIONS
1	Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems. <i>Biogeosciences</i> , 2015, 12, 7129-7167.	1.3	354
2	Large loss of CO ₂ in winter observed across the northern permafrost region. <i>Nature Climate Change</i> , 2019, 9, 852-857.	8.1	225
3	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108350.	1.9	125
4	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020, 10, 555-560.	8.1	106
5	Permafrost thaw and wildfire: Equally important drivers of boreal tree cover changes in the Taiga Plains, Canada. <i>Geophysical Research Letters</i> , 2016, 43, 1598-1606.	1.5	83
6	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.	3.7	79
7	Spatial and seasonal variability of polygonal tundra water balance: Lena River Delta, northern Siberia (Russia). <i>Hydrogeology Journal</i> , 2013, 21, 133-147.	0.9	71
8	Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. <i>Earth System Science Data</i> , 2019, 11, 1263-1289.	3.7	69
9	Direct and indirect climate change effects on carbon dioxide fluxes in a thawing boreal forest-wetland landscape. <i>Global Change Biology</i> , 2017, 23, 3231-3248.	4.2	65
10	The positive net radiative greenhouse gas forcing of increasing methane emissions from a thawing boreal forest-wetland landscape. <i>Global Change Biology</i> , 2017, 23, 2413-2427.	4.2	63
11	Regional atmospheric cooling and wetting effect of permafrost thaw-induced boreal forest loss. <i>Global Change Biology</i> , 2016, 22, 4048-4066.	4.2	60
12	The Boreal-Arctic Wetland and Lake Dataset (BAWLD). <i>Earth System Science Data</i> , 2021, 13, 5127-5149.	3.7	46
13	Increased high-latitude photosynthetic carbon gain offset by respiration carbon loss during an anomalous warm winter to spring transition. <i>Global Change Biology</i> , 2020, 26, 682-696.	4.2	41
14	Prompt active restoration of peatlands substantially reduces climate impact. <i>Environmental Research Letters</i> , 2019, 14, 124030.	2.2	37
15	Substantial hysteresis in emergent temperature sensitivity of global wetland CH ₄ emissions. <i>Nature Communications</i> , 2021, 12, 2266.	5.8	34
16	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
17	Integrating continuous atmospheric boundary layer and tower-based flux measurements to advance understanding of land-atmosphere interactions. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108509.	1.9	31
18	The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020, 15, 104004.	2.2	31

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19	Addressing a systematic bias in carbon dioxide flux measurements with the EC150 and the IRGASON open-path gas analyzers. <i>Agricultural and Forest Meteorology</i> , 2016, 228-229, 349-359.	1.9	30
20	Minor contribution of overstorey transpiration to landscape evapotranspiration in boreal permafrost peatlands. <i>Ecohydrology</i> , 2018, 11, e1975.	1.1	25
21	Does direct-seeded rice decrease ecosystem-scale methane emissions?â€”A case study from a rice paddy in southeast China. <i>Agricultural and Forest Meteorology</i> , 2019, 272-273, 118-127.	1.9	24
22	Soil respiration strongly offsets carbon uptake in Alaska and Northwest Canada. <i>Environmental Research Letters</i> , 2021, 16, 084051.	2.2	23
23	Warmer spring conditions increase annual methane emissions from a boreal peat landscape with sporadic permafrost. <i>Environmental Research Letters</i> , 2017, 12, 115009.	2.2	22
24	The ABCflux database: Arcticâ€™boreal CO ₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. <i>Earth System Science Data</i> , 2022, 14, 179-208.	3.7	22
25	Local analysis of cleaning mechanisms in CIP processes. <i>Food and Bioproducts Processing</i> , 2012, 90, 858-866.	1.8	18
26	Contrasting Temperature Sensitivity of CO ₂ Exchange in Peatlands of the Hudson Bay Lowlands, Canada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2126-2143.	1.3	17
27	Laboratory methods to predict the cleaning behaviour of egg yolk layers in a flow channel. <i>Food and Bioproducts Processing</i> , 2019, 113, 108-117.	1.8	15
28	Increasing the Cleaning Efficiency of the Cleaningâ€™inâ€™Place Method by Applying Discontinuous Liquid Jets. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 1072-1082.	0.4	11
29	A comparison of local phosphorescence detection and fluid dynamic gauging methods for studying the removal of cohesive fouling layers: Effect of layer roughness. <i>Food and Bioproducts Processing</i> , 2014, 92, 46-53.	1.8	10
30	Modelling the effects of permafrost loss on discharge from a wetlandâ€™dominated, discontinuous permafrost basin. <i>Hydrological Processes</i> , 2019, 33, 2607-2626.	1.1	9
31	Advancing Crossâ€™Disciplinary Understanding of Landâ€™Atmosphere Interactions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	7
32	Hydroclimatic assessment of water resources of low Pacific islands: evaluating sensitivity to climatic change and variability. <i>International Journal of Climatology</i> , 2014, 34, 881-892.	1.5	6
33	The implications of permafrost thaw and land cover change on snow water equivalent accumulation, melt and runoff in discontinuous permafrost peatlands. <i>Hydrological Processes</i> , 2021, 35, e14363.	1.1	6
34	Seasonal and Spatial Variability of Biological N ₂ Fixation in a Cool Temperate Bog. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	3
35	Derivation of a climatic dataset for water balance modelling of Pacific atolls. <i>Meteorologische Zeitschrift</i> , 2011, 20, 565-570.	0.5	1