

Christoph Ammann

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

4,650
citations

186209

28
h-index

161767

54
g-index

71
all docs

71
docs citations

71
times ranked

6616
citing authors

#	ARTICLE	IF	CITATIONS
1	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	4.2	113
2	Using the inverse dispersion method to determine methane emissions from biogas plants and wastewater treatment plants with complex source configurations. <i>Atmospheric Environment: X</i> , 2022, 13, 100161.	0.8	4
3	Reactive nitrogen fluxes over peatland and forest ecosystems using micrometeorological measurement techniques. <i>Earth System Science Data</i> , 2022, 14, 743-761.	3.7	2
4	Performance of open-path GasFinder3 devices for CH ₄ concentration measurements close to ambient levels. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1733-1741.	1.2	5
5	Carbon budget response of an agriculturally used fen to different soil moisture conditions. <i>Agricultural and Forest Meteorology</i> , 2021, 300, 108319.	1.9	2
6	Assessment of the inverse dispersion method for the determination of methane emissions from a dairy housing. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108501.	1.9	9
7	Immission and Dry Deposition. <i>Springer Handbooks</i> , 2021, , 1445-1471.	0.3	2
8	Large regional differences of soil water limitation effect on ozone induced yield loss for wheat and potato in Switzerland. <i>Science of the Total Environment</i> , 2020, 718, 135257.	3.9	2
9	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
10	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
11	Soil greenhouse gas budget of two intensively managed grazing systems. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107960.	1.9	13
12	Correcting high-frequency losses of reactive nitrogen flux measurements. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2923-2948.	1.2	11
13	Effect of management and weather variations on the greenhouse gas budget of two grasslands during a 10-year experiment. <i>Agriculture, Ecosystems and Environment</i> , 2020, 292, 106814.	2.5	28
14	Modeling the impacts of diffuse light fraction on photosynthesis in ORCHIDEE (v5453) land surface model. <i>Geoscientific Model Development</i> , 2020, 13, 5401-5423.	1.3	23
15	Crazing-related nitrous oxide emissions: from patch scale to field scale. <i>Biogeosciences</i> , 2019, 16, 1685-1703.	1.3	21
16	Eddy Covariance Flux Measurements of NH ₃ and NO _y with a Dual-Channel Thermal Converter. , 2019, , .		2
17	Ammonia emission measurements of an intensively grazed pasture. <i>Biogeosciences</i> , 2018, 15, 4593-4608.	1.3	21
18	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

#	ARTICLE	IF	CITATIONS
19	Importance of soil NO emissions for the total atmospheric NO _x budget of Saxony, Germany. <i>Atmospheric Environment</i> , 2017, 152, 61-76.	1.9	21
20	Determination of the carbon budget of a pasture: effect of system boundaries and flux uncertainties. <i>Biogeosciences</i> , 2016, 13, 2959-2969.	1.3	27
21	Surface-atmosphere exchange of ammonia over peatland using QCL-based eddy-covariance measurements and inferential modeling. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11283-11299.	1.9	37
22	A modeling study on mitigation of N ₂ O emissions and NO ₃ leaching at different agricultural sites across Europe using LandscapeDNDC. <i>Science of the Total Environment</i> , 2016, 553, 128-140.	3.9	52
23	Discerning the cows from the pasture: Quantifying and partitioning the NEE of a grazed pasture using animal position data. <i>Agricultural and Forest Meteorology</i> , 2016, 216, 37-47.	1.9	18
24	Eddy-covariance data with low signal-to-noise ratio: time-lag determination, uncertainties and limit of detection. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4197-4213.	1.2	80
25	Joint control of terrestrial gross primary productivity by plant phenology and physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2788-2793.	3.3	265
26	The energy balance over land and oceans: an assessment based on direct observations and CMIP5 climate models. <i>Climate Dynamics</i> , 2015, 44, 3393-3429.	1.7	239
27	Eddy covariance methane flux measurements over a grazed pasture: effect of cows as moving point sources. <i>Biogeosciences</i> , 2015, 12, 3925-3940.	1.3	43
28	High tolerance of subalpine grassland to long-term ozone exposure is independent of N input and climatic drivers. <i>Environmental Pollution</i> , 2014, 189, 161-168.	3.7	17
29	How is water-use efficiency of terrestrial ecosystems distributed and changing on Earth?. <i>Scientific Reports</i> , 2014, 4, 7483.	1.6	181
30	Fluxes of total reactive atmospheric nitrogen ($\sum \text{Nr}$) using eddy covariance above arable land. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013, 65, 19770.	0.8	18
31	Contrasting response of grassland versus forest carbon and water fluxes to spring drought in Switzerland. <i>Environmental Research Letters</i> , 2013, 8, 035007.	2.2	108
32	Measurements of nitrogen oxides and ozone fluxes by eddy covariance at a meadow: evidence for an internal leaf resistance to NO ₂ and O ₃ . <i>Biogeosciences</i> , 2013, 10, 5997-6017.	1.3	24
33	Disjunct Eddy Covariance Method. , 2012, , 291-307.		15
34	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	3.5	111
35	On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. <i>Agricultural and Forest Meteorology</i> , 2012, 152, 212-222.	1.9	121
36	A comparison of repeated soil inventory and carbon flux budget to detect soil carbon stock changes after conversion from cropland to grasslands. <i>Global Change Biology</i> , 2011, 17, 3366-3375.	4.2	33

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37	Response to Comment on "Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level". Science, 2011, 331, 1265-1265.	6.0	9
38	Management effects on European cropland respiration. Agriculture, Ecosystems and Environment, 2010, 139, 346-362.	2.5	58
39	Contrasting response of European forest and grassland energy exchange to heatwaves. Nature Geoscience, 2010, 3, 722-727.	5.4	491
40	Climate control of terrestrial carbon exchange across biomes and continents. Environmental Research Letters, 2010, 5, 034007.	2.2	137
41	Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level. Science, 2010, 329, 838-840.	6.0	446
42	N ₂ O exchange over managed grassland: Application of a quantum cascade laser spectrometer for micrometeorological flux measurements. Agricultural and Forest Meteorology, 2010, 150, 775-785.	1.9	87
43	Assessment of the nitrogen and carbon budget of two managed temperate grassland fields. Agriculture, Ecosystems and Environment, 2009, 133, 150-162.	2.5	148
44	Soil Respiration in European Grasslands in Relation to Climate and Assimilate Supply. Ecosystems, 2008, 11, 1352-1367.	1.6	276
45	Application and test of a simple tool for operational footprint evaluations. Environmental Pollution, 2008, 152, 644-652.	3.7	116
46	High-resolution modelling of AOT ₄₀ and stomatal ozone uptake in wheat and grassland: A comparison between 2000 and the hot summer of 2003 in Switzerland. Environmental Pollution, 2007, 146, 671-677.	3.7	11
47	Estimating the greenhouse gas fluxes of European grasslands with a process-based model: 1. Model evaluation from in situ measurements. Global Biogeochemical Cycles, 2007, 21, .	1.9	36
48	Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-water-stressed conditions. Global Change Biology, 2007, 13, 734-760.	4.2	81
49	Experimental assessment of N ₂ O background fluxes in grassland systems. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 470-482.	0.8	83
50	Experimental assessment of N ₂ O background fluxes in grassland systems. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, .	0.8	3
51	Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-water-stressed conditions. Global Change Biology, 2007, .	4.2	0
52	Bi-directional soil/atmosphere N ₂ O exchange over two mown grassland systems with contrasting management practices. Global Change Biology, 2005, 11, 2114-2127.	4.2	172
53	Design and field application of an automated cartridge sampler for VOC concentration and flux measurements. Journal of Environmental Monitoring, 2005, 7, 568.	2.1	15
54	Dispersion of carbon dioxide plumes in African woodland: implications for host-finding by tsetse flies. Physiological Entomology, 2004, 29, 381-394.	0.6	33