

# Christoph Ammann

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

4,650  
citations

186265

28  
h-index

161849

54  
g-index

71  
all docs

71  
docs citations

71  
times ranked

6616  
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.	5.3	646
2	Contrasting response of European forest and grassland energy exchange to heatwaves. <i>Nature Geoscience</i> , 2010, 3, 722-727.	12.9	491
3	Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level. <i>Science</i> , 2010, 329, 838-840.	12.6	446
4	Soil Respiration in European Grasslands in Relation to Climate and Assimilate Supply. <i>Ecosystems</i> , 2008, 11, 1352-1367.	3.4	276
5	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.	7.1	265
6	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.	3.8	239
7	How is water-use efficiency of terrestrial ecosystems distributed and changing on Earth?. <i>Scientific Reports</i> , 2014, 4, 7483.	3.3	181
8	Bi-directional soil/atmosphere N <sub>2</sub> O exchange over two mown grassland systems with contrasting management practices. <i>Global Change Biology</i> , 2005, 11, 2114-2127.	9.5	172
9	Assessment of the nitrogen and carbon budget of two managed temperate grassland fields. <i>Agriculture, Ecosystems and Environment</i> , 2009, 133, 150-162.	5.3	148
10	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	5.2	137
11	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.	4.8	121
12	Application and test of a simple tool for operational footprint evaluations. <i>Environmental Pollution</i> , 2008, 152, 644-652.	7.5	116
13	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	9.5	113
14	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	7.3	111
15	Contrasting response of grassland versus forest carbon and water fluxes to spring drought in Switzerland. <i>Environmental Research Letters</i> , 2013, 8, 035007.	5.2	108
16	N <sub>2</sub> O exchange over managed grassland: Application of a quantum cascade laser spectrometer for micrometeorological flux measurements. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 775-785.	4.8	87
17	Experimental assessment of N <sub>2</sub> O background fluxes in grassland systems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 470-482.	1.6	83
18	Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-irrigated conditions. <i>Global Change Biology</i> , 2007, 13, 734-760.	9.5	81

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19	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.	3.1	80
20	Management effects on European cropland respiration. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 346-362.	5.3	58
21	A modeling study on mitigation of N <sub>2</sub> O emissions and NO <sub>3</sub> leaching at different agricultural sites across Europe using LandscapeDNDC. <i>Science of the Total Environment</i> , 2016, 553, 128-140.	8.0	52
22	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.	9.5	48
23	Eddy covariance methane flux measurements over a grazed pasture: effect of cows as moving point sources. <i>Biogeosciences</i> , 2015, 12, 3925-3940.	3.3	43
24	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.	4.9	37
25	Estimating the greenhouse gas fluxes of European grasslands with a process-based model: 1. Model evaluation from in situ measurements. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	36
26	Dispersion of carbon dioxide plumes in African woodland: implications for host-finding by tsetse flies. <i>Physiological Entomology</i> , 2004, 29, 381-394.	1.5	33
27	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.	9.5	33
28	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.	5.3	28
29	Determination of the carbon budget of a pasture: effect of system boundaries and flux uncertainties. <i>Biogeosciences</i> , 2016, 13, 2959-2969.	3.3	27
30	Measurements of nitrogen oxides and ozone fluxes by eddy covariance at a meadow: evidence for an internal leaf resistance to NO <sub>2</sub> and O <sub>3</sub> . <i>Biogeosciences</i> , 2013, 10, 5997-6017.	3.3	24
31	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
32	Modeling the impacts of diffuse light fraction on photosynthesis in ORCHIDEE (v5453) land surface model. <i>Geoscientific Model Development</i> , 2020, 13, 5401-5423.	3.6	23
33	Importance of soil NO emissions for the total atmospheric NO <sub>x</sub> budget of Saxony, Germany. <i>Atmospheric Environment</i> , 2017, 152, 61-76.	4.1	21
34	Ammonia emission measurements of an intensively grazed pasture. <i>Biogeosciences</i> , 2018, 15, 4593-4608.	3.3	21
35	Grazing-related nitrous oxide emissions: from patch scale to field scale. <i>Biogeosciences</i> , 2019, 16, 1685-1703.	3.3	21
36	Fluxes of total reactive atmospheric nitrogen ( $\Sigma\text{Nr}$ ) using eddy covariance above arable land. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013, 65, 19770.	1.6	18

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37	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.	4.8	18
38	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.	7.5	17
39	Design and field application of an automated cartridge sampler for VOC concentration and flux measurements. <i>Journal of Environmental Monitoring</i> , 2005, 7, 568.	2.1	15
40	Disjunct Eddy Covariance Method. , 2012, , 291-307.		15
41	Soil greenhouse gas budget of two intensively managed grazing systems. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107960.	4.8	13
42	High-resolution modelling of AOT40 and stomatal ozone uptake in wheat and grassland: A comparison between 2000 and the hot summer of 2003 in Switzerland. <i>Environmental Pollution</i> , 2007, 146, 671-677.	7.5	11
43	Correcting high-frequency losses of reactive nitrogen flux measurements. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2923-2948.	3.1	11
44	Response to Comment on "Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level". <i>Science</i> , 2011, 331, 1265-1265.	12.6	9
45	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.	4.8	9
46	Performance of open-path GasFinder3 devices for CH <sub>4</sub> concentration measurements close to ambient levels. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1733-1741.	3.1	5
47	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.	1.4	4
48	Experimental assessment of N <sub>2</sub> O background fluxes in grassland systems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, .	1.6	3
49	Eddy Covariance Flux Measurements of NH <sub>3</sub> and NO <sub>y</sub> with a Dual-Channel Thermal Converter. , 2019, , .		2
50	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.	8.0	2
51	Carbon budget response of an agriculturally used fen to different soil moisture conditions. <i>Agricultural and Forest Meteorology</i> , 2021, 300, 108319.	4.8	2
52	Immission and Dry Deposition. <i>Springer Handbooks</i> , 2021, , 1445-1471.	0.6	2
53	Reactive nitrogen fluxes over peatland and forest ecosystems using micrometeorological measurement techniques. <i>Earth System Science Data</i> , 2022, 14, 743-761.	9.9	2
54	Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-water-stressed conditions. <i>Global Change Biology</i> , 2007, .	9.5	0