

# Corinna Rebmann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6541997/publications.pdf>

Version: 2024-02-01

74  
papers

14,500  
citations

71102

41  
h-index

82547

72  
g-index

103  
all docs

103  
docs citations

103  
times ranked

11493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gap filling strategies for defensible annual sums of net ecosystem exchange. <i>Agricultural and Forest Meteorology</i> , 2001, 107, 43-69.	4.8	1,579
2	Estimates of the Annual Net Carbon and Water Exchange of Forests: The EUROFLUX Methodology. <i>Advances in Ecological Research</i> , 1999, , 113-175.	2.7	1,540
3	Respiration as the main determinant of carbon balance in European forests. <i>Nature</i> , 2000, 404, 861-865.	27.8	1,438
4	CO <sub>2</sub> balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , 2007, 13, 2509-2537.	9.5	863
5	Productivity overshadows temperature in determining soil and ecosystem respiration across European forests. <i>Global Change Biology</i> , 2001, 7, 269-278.	9.5	843
6	Influence of spring and autumn phenological transitions on forest ecosystem productivity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 3227-3246.	4.0	751
7	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
8	Seasonality of ecosystem respiration and gross primary production as derived from FLUXNET measurements. <i>Agricultural and Forest Meteorology</i> , 2002, 113, 53-74.	4.8	606
9	Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. <i>Agricultural and Forest Meteorology</i> , 2007, 143, 123-145.	4.8	509
10	Gap filling strategies for long term energy flux data sets. <i>Agricultural and Forest Meteorology</i> , 2001, 107, 71-77.	4.8	493
11	Land management and land-cover change have impacts of similar magnitude on surface temperature. <i>Nature Climate Change</i> , 2014, 4, 389-393.	18.8	404
12	Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance. <i>Global Change Biology</i> , 2011, 17, 1167-1185.	9.5	374
13	A strategy for quality and uncertainty assessment of long-term eddy-covariance measurements. <i>Agricultural and Forest Meteorology</i> , 2013, 169, 122-135.	4.8	374
14	Productivity of forests in the Eurosiberian boreal region and their potential to act as a carbon sink – a synthesis. <i>Global Change Biology</i> , 1999, 5, 703-722.	9.5	338
15	Quality control of CarboEurope flux data – Part 1: Coupling footprint analyses with flux data quality assessment to evaluate sites in forest ecosystems. <i>Biogeosciences</i> , 2008, 5, 433-450.	3.3	192
16	A combination of quality assessment tools for eddy covariance measurements with footprint modelling for the characterisation of complex sites. <i>Agricultural and Forest Meteorology</i> , 2004, 127, 175-188.	4.8	185
17	Early stage litter decomposition across biomes. <i>Science of the Total Environment</i> , 2018, 628-629, 1369-1394.	8.0	177
18	Quality analysis applied on eddy covariance measurements at complex forest sites using footprint modelling. <i>Theoretical and Applied Climatology</i> , 2005, 80, 121-141.	2.8	173

#	ARTICLE	IF	CITATIONS
19	Forest and agricultural land-use-dependent CO <sub>2</sub> exchange in Thuringia, Germany. <i>Global Change Biology</i> , 2004, 10, 2005-2019.	9.5	157
20	The European carbon balance. Part 4: integration of carbon and other trace-gas fluxes. <i>Global Change Biology</i> , 2010, 16, 1451-1469.	9.5	157
21	Soil respiration fluxes in relation to photosynthetic activity in broad-leaf and needle-leaf forest stands. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 135-143.	4.8	154
22	Phase and amplitude of ecosystem carbon release and uptake potentials as derived from FLUXNET measurements. <i>Agricultural and Forest Meteorology</i> , 2002, 113, 75-95.	4.8	145
23	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	5.2	137
24	Comparison of horizontal and vertical advective CO <sub>2</sub> fluxes at three forest sites. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 12-24.	4.8	136
25	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. <i>Global Change Biology</i> , 2011, 17, 390-409.	9.5	128
26	Direct advection measurements do not help to solve the night-time CO <sub>2</sub> closure problem: Evidence from three different forests. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 655-664.	4.8	126
27	The Bode hydrological observatory: a platform for integrated, interdisciplinary hydro-ecological research within the TERENO Harz/Central German Lowland Observatory. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	93
28	Improving calibration and validation of cosmic-ray neutron sensors in the light of spatial sensitivity. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5009-5030.	4.9	93
29	Estimating nocturnal ecosystem respiration from the vertical turbulent flux and change in storage of CO <sub>2</sub> . <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1919-1930.	4.8	91
30	Vertical profiles, boundary layer budgets, and regional flux estimates for CO <sub>2</sub> and its <sup>13</sup> C/ <sup>12</sup> C ratio and for water vapor above a forest/bog mosaic in central Siberia. <i>Global Biogeochemical Cycles</i> , 2001, 15, 267-284.	4.9	83
31	Impact of afforestation-associated management changes on the carbon balance of grassland. <i>Global Change Biology</i> , 2009, 15, 1990-2002.	9.5	78
32	Artificial drainage and associated carbon fluxes (CO <sub>2</sub> /CH <sub>4</sub> ) in a tundra ecosystem. <i>Global Change Biology</i> , 2009, 15, 2599-2614.	9.5	78
33	ADVECTION AND RESULTING CO <sub>2</sub> EXCHANGE UNCERTAINTY IN A TALL FOREST IN CENTRAL GERMANY. , 2008, 18, 1391-1405.		68
34	Eddy covariance raw data processing for CO <sub>2</sub> and energy fluxes calculation at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 495-515.	1.7	62
35	Validating MODIS and Sentinel-2 NDVI Products at a Temperate Deciduous Forest Site Using Two Independent Ground-Based Sensors. <i>Sensors</i> , 2017, 17, 1855.	3.8	61
36	ICOS eddy covariance flux-station site setup: a review. <i>International Agrophysics</i> , 2018, 32, 471-494.	1.7	59

#	ARTICLE	IF	CITATIONS
37	Available energy and energy balance closure at four coniferous forest sites across Europe. <i>Theoretical and Applied Climatology</i> , 2009, 98, 397-412.	2.8	58
38	Management effects on European cropland respiration. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 346-362.	5.3	58
39	Data Acquisition and Flux Calculations. , 2012, , 59-83.		57
40	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
41	Impact of interacting bark structure and rainfall conditions on stemflow variability in a temperate beech-oak forest, central Germany. <i>Hydrological Sciences Journal</i> , 2016, 61, 2071-2083.	2.6	54
42	Treatment and assessment of the CO <sub>2</sub> -exchange at a complex forest site in Thuringia, Germany. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 684-691.	4.8	46
43	The Integrated Carbon Observation System in Europe. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E855-E872.	3.3	44
44	Carbon and water exchanges of two contrasting central Siberia landscape types: regenerating forest and bog. <i>Functional Ecology</i> , 2000, 14, 87-96.	3.6	41
45	Soil Respiration in Beech and Spruce Forests in Europe: Trends, Controlling Factors, Annual Budgets and Implications for the Ecosystem Carbon Balance. <i>Ecological Studies</i> , 2000, , 217-236.	1.2	37
46	Spruce Forests (Norway and Sitka Spruce, Including Douglas Fir): Carbon and Water Fluxes and Balances, Ecological and Ecophysiological Determinants. <i>Ecological Studies</i> , 2003, , 99-123.	1.2	36
47	An empirical study of the wound effect on sap flux density measured with thermal dissipation probes. <i>Tree Physiology</i> , 2016, 36, 1471-1484.	3.1	35
48	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.	4.0	35
49	Effects of an extremely dry winter on net ecosystem carbon exchange and tree phenology at a cork oak woodland. <i>Agricultural and Forest Meteorology</i> , 2015, 204, 48-57.	4.8	33
50	COSMOS-Europe: a European network of cosmic-ray neutron soil moisture sensors. <i>Earth System Science Data</i> , 2022, 14, 1125-1151.	9.9	33
51	Impact of CO <sub>2</sub> storage flux sampling uncertainty on net ecosystem exchange measured by eddy covariance. <i>Agricultural and Forest Meteorology</i> , 2018, 248, 228-239.	4.8	30
52	Drought impact on carbon and water cycling in a Mediterranean <i>Quercus suber</i> woodland during the extreme drought event in 2012. <i>Biogeosciences</i> , 2014, 11, 7159-7178.	3.3	27
53	Carbon balance gradient in European forests: should we doubt "surprising" results? A reply to Piovesan & Adams. <i>Journal of Vegetation Science</i> , 2001, 12, 145-150.	2.2	24
54	Uncovering the critical soil moisture thresholds of plant water stress for European ecosystems. <i>Global Change Biology</i> , 2022, 28, 2111-2123.	9.5	23

#	ARTICLE	IF	CITATIONS
55	Use of remotely sensed land use classification for a better evaluation of micrometeorological flux measurement sites. <i>Theoretical and Applied Climatology</i> , 2006, 84, 219-233.	2.8	22
56	Analysis of periods with strong and coherent CO <sub>2</sub> advection over a forested hill. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 674-683.	4.8	20
57	A Model-Based Study of Carbon Fluxes at Ten European Forest Sites. <i>Ecological Studies</i> , 2003, , 151-177.	1.2	19
58	X-ray computed microtomography characterizes the wound effect that causes sap flow underestimation by thermal dissipation sensors. <i>Tree Physiology</i> , 2018, 38, 287-301.	3.1	18
59	Source partitioning of H <sub>2</sub> O and CO <sub>2</sub> fluxes based on high-frequency eddy covariance data: a comparison between study sites. <i>Biogeosciences</i> , 2019, 16, 1111-1132.	3.3	17
60	Methodology for Data Acquisition, Storage, and Treatment. <i>Ecological Studies</i> , 2003, , 9-35.	1.2	17
61	Assimilating phenology datasets automatically across ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 677-687.	1.7	14
62	Estimating the carbon fluxes of forests with an individual-based forest model. <i>Forest Ecosystems</i> , 2017, 4, .	3.1	13
63	Carbon Sequestration in Mixed Deciduous Forests: The Influence of Tree Size and Species Composition Derived from Model Experiments. <i>Forests</i> , 2021, 12, 726.	2.1	13
64	Method comparison of indirect assessments of understory leaf area index (LAI <sub>u</sub> ): A case study across the extended network of ICOS forest ecosystem sites in Europe. <i>Ecological Indicators</i> , 2021, 128, 107841.	6.3	12
65	Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. <i>Biogeosciences</i> , 2021, 18, 621-635.	3.3	12
66	Carbon Budget of a Spruce Forest Ecosystem. <i>Ecological Studies</i> , 2004, , 143-159.	1.2	12
67	Radiation measurements at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 589-605.	1.7	8
68	On the leaf inclination angle distribution as a plant trait for the most abundant broadleaf tree species in Europe. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109030.	4.8	8
69	Evaporation in the Boreal Zone During Summer. <i>Physics and Vegetation</i> , 2001, , 151-165.		7
70	Identifying the main drivers of the seasonal decline of near-infrared reflectance of a temperate deciduous forest. <i>Agricultural and Forest Meteorology</i> , 2022, 313, 108746.	4.8	7
71	Long-Term Carbon and Water Vapour Fluxes. <i>Ecological Studies</i> , 2017, , 73-96.	1.2	6
72	Inferring Grassland Drought Stress with Unsupervised Learning from Airborne Hyperspectral VNIR Imagery. <i>Remote Sensing</i> , 2021, 13, 1885.	4.0	3

#	ARTICLE	IF	CITATIONS
73	Development of Flux Data Quality Tools. <i>Ecological Studies</i> , 2017, , 277-308.	1.2	2
74	Carbon Balance Gradient in European Forests: Should We Doubt 'Surprising' Results? A Reply to Piovesan & Adams. <i>Journal of Vegetation Science</i> , 2001, 12, 145.	2.2	1