

Corinna Rebmann

List of Publications by Year in descending order

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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	The Integrated Carbon Observation System in Europe. Bulletin of the American Meteorological Society, 2022, 103, E855-E872.	3.3	44
2	Identifying the main drivers of the seasonal decline of near-infrared reflectance of a temperate deciduous forest. Agricultural and Forest Meteorology, 2022, 313, 108746.	4.8	7
3	COSMOS-Europe: a European network of cosmic-ray neutron soil moisture sensors. Earth System Science Data, 2022, 14, 1125-1151.	9.9	33
4	Uncovering the critical soil moisture thresholds of plant water stress for European ecosystems. Global Change Biology, 2022, 28, 2111-2123.	9.5	23
5	On the leaf inclination angle distribution as a plant trait for the most abundant broadleaf tree species in Europe. Agricultural and Forest Meteorology, 2022, 323, 109030.	4.8	8
6	Inferring Grassland Drought Stress with Unsupervised Learning from Airborne Hyperspectral VNIR Imagery. Remote Sensing, 2021, 13, 1885.	4.0	3
7	Carbon Sequestration in Mixed Deciduous Forests: The Influence of Tree Size and Species Composition Derived from Model Experiments. Forests, 2021, 12, 726.	2.1	13
8	Method comparison of indirect assessments of understory leaf area index (LAI _u): A case study across the extended network of ICOS forest ecosystem sites in Europe. Ecological Indicators, 2021, 128, 107841.	6.3	12
9	Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. Biogeosciences, 2021, 18, 621-635.	3.3	12
10	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
11	Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190524.	4.0	35
12	Source partitioning of H ₂ O and CO ₂ fluxes based on high-frequency eddy covariance data: a comparison between study sites. Biogeosciences, 2019, 16, 1111-1132.	3.3	17
13	Early stage litter decomposition across biomes. Science of the Total Environment, 2018, 628-629, 1369-1394.	8.0	177
14	X-ray computed microtomography characterizes the wound effect that causes sap flow underestimation by thermal dissipation sensors. Tree Physiology, 2018, 38, 287-301.	3.1	18
15	Impact of CO ₂ storage flux sampling uncertainty on net ecosystem exchange measured by eddy covariance. Agricultural and Forest Meteorology, 2018, 248, 228-239.	4.8	30
16	Towards long-term standardised carbon and greenhouse gas observations for monitoring Europe's terrestrial ecosystems: a review. International Agrophysics, 2018, 32, 439-455.	1.7	55
17	Eddy covariance raw data processing for CO ₂ and energy fluxes calculation at ICOS ecosystem stations. International Agrophysics, 2018, 32, 495-515.	1.7	62
18	ICOS eddy covariance flux-station site setup: a review. International Agrophysics, 2018, 32, 471-494.	1.7	59

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19	Radiation measurements at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 589-605.	1.7	8
20	Assimilating phenology datasets automatically across ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 677-687.	1.7	14
21	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
22	Long-Term Carbon and Water Vapour Fluxes. <i>Ecological Studies</i> , 2017, , 73-96.	1.2	6
23	Development of Flux Data Quality Tools. <i>Ecological Studies</i> , 2017, , 277-308.	1.2	2
24	Estimating the carbon fluxes of forests with an individual-based forest model. <i>Forest Ecosystems</i> , 2017, 4, .	3.1	13
25	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
26	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
27	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
28	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
29	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
30	Drought impact on carbon and water cycling in a Mediterranean <i>Quercus suber</i> L. woodland during the extreme drought event in 2012. <i>Biogeosciences</i> , 2014, 11, 7159-7178.	3.3	27
31	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
32	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
33	Data Acquisition and Flux Calculations. , 2012, , 59-83.		57
34	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
35	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
36	Management effects on European cropland respiration. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 346-362.	5.3	58

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37	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
38	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	5.2	137
39	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
40	Treatment and assessment of the CO ₂ -exchange at a complex forest site in Thuringia, Germany. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 684-691.	4.8	46
41	Analysis of periods with strong and coherent CO ₂ advection over a forested hill. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 674-683.	4.8	20
42	Direct advection measurements do not help to solve the night-time CO ₂ closure problem: Evidence from three different forests. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 655-664.	4.8	126
43	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
44	Impact of afforestation-associated management changes on the carbon balance of grassland. <i>Global Change Biology</i> , 2009, 15, 1990-2002.	9.5	78
45	Artificial drainage and associated carbon fluxes (CO ₂ /CH ₄) in a tundra ecosystem. <i>Global Change Biology</i> , 2009, 15, 2599-2614.	9.5	78
46	Estimating nocturnal ecosystem respiration from the vertical turbulent flux and change in storage of CO ₂ . <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1919-1930.	4.8	91
47	Comparison of horizontal and vertical advective CO ₂ fluxes at three forest sites. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 12-24.	4.8	136
48	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
49	ADVECTION AND RESULTING CO ₂ EXCHANGE UNCERTAINTY IN A TALL FOREST IN CENTRAL GERMANY. , 2008, 18, 1391-1405.		68
50	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
51	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
52	CO ₂ balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , 2007, 13, 2509-2537.	9.5	863
53	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
54	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

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55	Forest and agricultural land-use-dependent CO ₂ exchange in Thuringia, Germany. <i>Global Change Biology</i> , 2004, 10, 2005-2019.	9.5	157
56	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
57	Carbon Budget of a Spruce Forest Ecosystem. <i>Ecological Studies</i> , 2004, , 143-159.	1.2	12
58	Methodology for Data Acquisition, Storage, and Treatment. <i>Ecological Studies</i> , 2003, , 9-35.	1.2	17
59	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
60	A Model-Based Study of Carbon Fluxes at Ten European Forest Sites. <i>Ecological Studies</i> , 2003, , 151-177.	1.2	19
61	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
62	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
63	Vertical profiles, boundary layer budgets, and regional flux estimates for CO ₂ and its ¹³ C/ ¹² 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
64	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
65	Gap filling strategies for long term energy flux data sets. <i>Agricultural and Forest Meteorology</i> , 2001, 107, 71-77.	4.8	493
66	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
67	Productivity overshadows temperature in determining soil and ecosystem respiration across European forests. <i>Global Change Biology</i> , 2001, 7, 269-278.	9.5	843
68	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
69	Evaporation in the Boreal Zone During Summer" <i>Physics and Vegetation</i> . , 2001, , 151-165.		7
70	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
71	Respiration as the main determinant of carbon balance in European forests. <i>Nature</i> , 2000, 404, 861-865.	27.8	1,438
72	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

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73	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
74	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