A Johannes Dolman

List of Publications by Year
in descending order

223 papers	29,766 citations	11608 70 h-index	5364 164 g-index
296 all docs	296 docs citations	296 times ranked	21574 citing authors

#	Article	IF	Citations
1	Energy balance closure at FLUXNET sites. Agricultural and Forest Meteorology, 2002, 113, 223-243.	1.9	1,877
2	Recent decline in the global land evapotranspiration trend due to limited moisture supply. Nature, 2010, 467, 951-954.	13.7	1,771
3	Gap filling strategies for defensible annual sums of net ecosystem exchange. Agricultural and Forest Meteorology, 2001, 107, 43-69.	1.9	1,579
4	Respiration as the main determinant of carbon balance in European forests. Nature, 2000, 404, 861-865.	13.7	1,438
5	Reduction of forest soil respiration in response to nitrogen deposition. Nature Geoscience, 2010, 3, 315-322.	5.4	1,254
6	Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation. Agricultural and Forest Meteorology, 2002, 113, 97-120.	1.9	1,133
7	Global land-surface evaporation estimated from satellite-based observations. Hydrology and Earth System Sciences, 2011, 15, 453-469.	1.9	1,069
8	CO₂ balance of boreal, temperate, and tropical forests derived from a global database. Global Change Biology, 2007, 13, 2509-2537.	4.2	863
9	Productivity overshadows temperature in determining soil and ecosystem respiration across European forests. Global Change Biology, 2001, 7, 269-278.	4.2	843
10	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	2.4	646
11	Europe's Terrestrial Biosphere Absorbs 7 to 12% of European Anthropogenic CO2 Emissions. Science, 2003, 300, 1538-1542.	6.0	551
12	Interactions between the atmosphere and terrestrial ecosystems: influence on weather and climate. Global Change Biology, 1998, 4, 461-475.	4.2	524
13	Gap filling strategies for long term energy flux data sets. Agricultural and Forest Meteorology, 2001, 107, 71-77.	1.9	493
14	Asymmetric effects of daytime and night-time warming on Northern Hemisphere vegetation. Nature, 2013, 501, 88-92.	13.7	482
15	Drought and ecosystem carbon cycling. Agricultural and Forest Meteorology, 2011, 151, 765-773.	1.9	446
16	Land management and land-cover change haveÂimpacts of similar magnitude on surfaceÂtemperature. Nature Climate Change, 2014, 4, 389-393.	8.1	404
17	Methane Feedbacks to the Global Climate System in a Warmer World. Reviews of Geophysics, 2018, 56, 207-250.	9.0	354
18	Climate regulation of fire emissions and deforestation in equatorial Asia. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20350-20355.	3.3	336

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19	Magnitude and variability of land evaporation and its components at the global scale. Hydrology and Earth System Sciences, 2011, 15, 967-981.	1.9	335
20	HAPEX-Sahel: a large-scale study of land-atmosphere interactions in the semi-arid tropics. Annales Geophysicae, 1994, 12, 53-64.	0.6	318
21	Global Soil Moisture Patterns Observed by Space Borne Microwave Radiometers and Scatterometers. Surveys in Geophysics, 2008, 29, 399-420.	2.1	311
22	Importance of methane and nitrous oxide for Europe's terrestrial greenhouse-gas balance. Nature Geoscience, 2009, 2, 842-850.	5.4	310
23	Benchmark products for land evapotranspiration: LandFlux-EVAL multi-data set synthesis. Hydrology and Earth System Sciences, 2013, 17, 3707-3720.	1.9	310
24	The Pilot Phase of the Global Soil Wetness Project. Bulletin of the American Meteorological Society, 1999, 80, 851-878.	1.7	292
25	Land surface temperature from Ka band (37 GHz) passive microwave observations. Journal of Geophysical Research, 2009, 114, .	3.3	261
26	El NiÃ±oâ€“La NiÃ±a cycle and recent trends in continental evaporation. Nature Climate Change, 2014, 4, 122-126.	8.1	254
27	The WACMOS-ET project â€“ PartÂ2: Evaluation of global terrestrial evaporation data sets. Hydrology and Earth System Sciences, 2016, 20, 823-842.	1.9	253
28	Using satellite based soil moisture to quantify the water driven variability in NDVI: A case study over mainland Australia. Remote Sensing of Environment, 2014, 140, 330-338.	4.6	251
29	Global canopy interception from satellite observations. Journal of Geophysical Research, 2010, 115, .	3.3	242
30	Climate controls on the variability of fires in the tropics and subtropics. Global Biogeochemical Cycles, 2008, 22, .	1.9	238
31	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. Global Change Biology, 2010, 16, 1317-1337.	4.2	223
32	Cloud and rain processes in a biosphere-atmosphere interaction context in the Amazon Region. Journal of Geophysical Research, 2002, 107, LBA 39-1.	3.3	222
33	Global distributions, time series and error characterization of atmospheric ammonia (NH₃) from IASI satellite observations. Atmospheric Chemistry and Physics, 2014, 14, 2905-2922.	1.9	195
34	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. Biogeosciences, 2014, 11, 3547-3602.	1.3	189
35	A three-dimensional gap filling method for large geophysical datasets: Application to global satellite soil moisture observations. Environmental Modelling and Software, 2012, 30, 139-142.	1.9	186
36	The carbon budget of terrestrial ecosystems at country-scale â€“ a European case study. Biogeosciences, 2005, 2, 15-26.	1.3	178

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37	The uncertain climate footprint of wetlands under human pressure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4594-4599.	3.3	171
38	Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. Water Resources Research, 2002, 38, 30-1-30-11.	1.7	169
39	The full greenhouse gas balance of an abandoned peat meadow. Biogeosciences, 2007, 4, 411-424.	1.3	167
40	The European carbon balance. Part 4: integration of carbon and other traceâ€gas fluxes. Global Change Biology, 2010, 16, 1451-1469.	4.2	157
41	A multiple-source land surface energy balance model for use in general circulation models. Agricultural and Forest Meteorology, 1993, 65, 21-45.	1.9	155
42	Methane emissions from permafrost thaw lakes limited by lake drainage. Nature Climate Change, 2011, 1, 119-123.	8.1	149
43	Interannual variation of water balance and summer evapotranspiration in an eastern Siberian larch forest over a 7-year period (1998â€“2006). Agricultural and Forest Meteorology, 2008, 148, 1941-1953.	1.9	148
44	The carbon uptake of a mid latitude pine forest growing on sandy soil. Agricultural and Forest Meteorology, 2002, 111, 157-170.	1.9	144
45	Land management: data availability and process understanding for global change studies. Global Change Biology, 2017, 23, 512-533.	4.2	142
46	The convective boundary layer over pasture and forest in Amazonia. Theoretical and Applied Climatology, 2004, 78, 47.	1.3	137
47	Changing Climate and Overgrazing Are Decimating Mongolian Steppes. PLoS ONE, 2013, 8, e57599.	1.1	136
48	Evaluation of six process-based forest growth models using eddy-covariance measurements of CO2 and H2 O fluxes at six forest sites in Europe. Global Change Biology, 2002, 8, 213-230.	4.2	135
49	Assessing parameter variability in a photosynthesis model within and between plant functional types using global Fluxnet eddy covariance data. Agricultural and Forest Meteorology, 2011, 151, 22-38.	1.9	135
50	An overview of HAPEX-Sahel: a study in climate and desertification. Journal of Hydrology, 1997, 188-189, 4-17.	2.3	131
51	The contribution of nitrogen deposition to the photosynthetic capacity of forests. Global Biogeochemical Cycles, 2013, 27, 187-199.	1.9	127
52	Stomatal and surface conductance of tropical rainforest. Agricultural and Forest Meteorology, 1991, 54, 303-318.	1.9	124
53	Interactions between the atmosphere and terrestrial ecosystems: influence on weather and climate. Global Change Biology, 1998, 4, 461-475.	4.2	122
54	Geographical, biological and remote sensing aspects of the hydrologic atmospheric pilot experiment in the sahel (HAPEX-Sahel). Remote Sensing of Environment, 1995, 51, 215-234.	4.6	118

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55	The Parametrization of Rainfall Interception In GCMs. Quarterly Journal of the Royal Meteorological Society, 1992, 118, 455-467.	1.0	117
56	An estimate of the terrestrial carbon budget of Russia using inventory-based, eddy covariance and inversion methods. Biogeosciences, 2012, 9, 5323-5340.	1.3	113
57	A global analysis of the impact of drought on net primary productivity. Hydrology and Earth System Sciences, 2013, 17, 3885-3894.	1.9	109
58	Multi-technique assessment of spatial and temporal variability of methane fluxes in a peat meadow. Agricultural and Forest Meteorology, 2010, 150, 757-774.	1.9	105
59	The growing season greenhouse gas balance of a continental tundra site in the Indigirka lowlands, NE Siberia. Biogeosciences, 2007, 4, 985-1003.	1.3	103
60	Modeling regional to global CH₄ emissions of boreal and arctic wetlands. Global Biogeochemical Cycles, 2010, 24, .	1.9	102
61	The CarboEurope Regional Experiment Strategy. Bulletin of the American Meteorological Society, 2006, 87, 1367-1380.	1.7	101
62	A compact and stable eddy covariance set-up for methane measurements using off-axis integrated cavity output spectroscopy. Atmospheric Chemistry and Physics, 2008, 8, 431-443.	1.9	100
63	High methane flux from an arctic floodplain (Indigirka lowlands, eastern Siberia). Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	96
64	Mesoscale covariance of transport and CO₂ fluxes: Evidence from observations and simulations using the WRFâ€VPRM coupled atmosphereâ€biosphere model. Journal of Geophysical Research, 2007, 112, .	3.3	93
65	Biospheric Aspects of the Hydrological Cycle. Journal of Hydrology, 1998, 212-213, 1-21.	2.3	92
66	Sonic anemometer (co)sine response and flux measurement. Agricultural and Forest Meteorology, 2003, 119, 195-207.	1.9	92
67	Comparison between tower and aircraft-based eddy covariance fluxes in five European regions. Agricultural and Forest Meteorology, 2004, 127, 1-16.	1.9	91
68	Summer and winter rainfall interception in an oak forest. Predictions with an analytical and a numerical simulation model. Journal of Hydrology, 1987, 90, 1-9.	2.3	87
69	Models meet data: Challenges and opportunities in implementing land management in Earth system models. Global Change Biology, 2018, 24, 1470-1487.	4.2	86
70	Effective resistance to sensible- and latent-heat flux in heterogeneous terrain. Quarterly Journal of the Royal Meteorological Society, 1993, 119, 423-442.	1.0	84
71	Statistical upscaling of ecosystem CO₂ fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. Global Change Biology, 2021, 27, 4040-4059.	4.2	83
72	Polymorphism from environmental heterogeneity: models are only robust if the heterozygote is close in fitness to the favoured homozygote in each environment. Genetical Research, 1985, 45, 299-314.	0.3	81

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73	FLUXNET-CH₄: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. Earth System Science Data, 2021, 13, 3607-3689.	3.7	79
74	Net ecosystem exchange of carbon dioxide and water of far eastern Siberian Larch (<I>Larix cajanderii</I>) on permafrost. Biogeosciences, 2004, 1, 133-146.	1.3	78
75	Longer growing seasons do not increase net carbon uptake in the northeastern Siberian tundra. Journal of Geophysical Research, 2011, 116, .	3.3	78
76	Photosynthesis and carbon balance of a Sahelian fallow savanna. Global Change Biology, 1998, 4, 523-538.	4.2	74
77	Parameterisation of aerodynamic roughness over boreal, cool- and warm-temperate forests. Agricultural and Forest Meteorology, 2008, 148, 1916-1925.	1.9	71
78	Variations in Amazon forest productivity correlated with foliar nutrients and modelled rates of photosynthetic carbon supply. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3316-3329.	1.8	71
79	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. National Science Review, 2021, 8, nwaa145.	4.6	70
80	Photosynthesis drives anomalies in net carbon-exchange of pine forests at different latitudes. Global Change Biology, 2007, 13, 2110-2127.	4.2	69
81	Energy consumption and evapotranspiration at several boreal and temperate forests in the Far East. Agricultural and Forest Meteorology, 2008, 148, 1978-1989.	1.9	69
82	A global analysis of soil moisture derived from satellite observations and a land surface model. Hydrology and Earth System Sciences, 2012, 16, 833-847.	1.9	69
83	Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. Earth System Science Data, 2019, 11, 1263-1289.	3.7	69
84	Climate is affected more by maritime than by continental land use change: A multiple scale analysis. Global and Planetary Change, 2006, 54, 128-149.	1.6	68
85	Estimates of CO2 uptake and release among European forests based on eddy covariance data. Global Change Biology, 2004, 10, 1445-1459.	4.2	67
86	Global surface soil moisture from the Microwave Radiation Imager onboard the Fengyun-3B satellite. International Journal of Remote Sensing, 2014, 35, 7007-7029.	1.3	67
87	Spatial and temporal dynamics in eddy covariance observations of methane fluxes at a tundra site in northeastern Siberia. Journal of Geophysical Research, 2011, 116, .	3.3	66
88	Worldwide spatiotemporal atmospheric ammonia (NH₃) columns variability revealed by satellite. Geophysical Research Letters, 2015, 42, 8660-8668.	1.5	66
89	Atmospheric CO2modeling at the regional scale: Application to the CarboEurope Regional Experiment. Journal of Geophysical Research, 2007, 112, .	3.3	65
90	Evapotranspiration from understory vegetation in an eastern Siberian boreal larch forest. Agricultural and Forest Meteorology, 2009, 149, 1129-1139.	1.9	65

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91	Precipitation Recycling: Moisture Sources over Europe using ERA-40 Data. Journal of Hydrometeorology, 2008, 9, 1073-1083.	0.7	63
92	Interactions of the carbon cycle, human activity, and the climate system: a research portfolio. Current Opinion in Environmental Sustainability, 2010, 2, 301-311.	3.1	62
93	Evaluating 4 years of atmospheric ammonia (NH₃) over Europe using IASI satellite observations and LOTOSâ€EUROS model results. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9549-9566.	1.2	61
94	Estimates of roughness length and zero plane displacement for a foliated and non-foliated oak canopy. Agricultural and Forest Meteorology, 1986, 36, 241-248.	1.9	60
95	Estimates of sensible heat flux from observations of temperature fluctuations. Boundary-Layer Meteorology, 1991, 57, 311-322.	1.2	56
96	Observations of boundary layer development during the HAPEX-Sahel intensive observation period. Journal of Hydrology, 1997, 188-189, 998-1016.	2.3	56
97	Wood allocation tradeâ€offs between fiber wall, fiber lumen, and axial parenchyma drive drought resistance in neotropical trees. Plant, Cell and Environment, 2020, 43, 965-980.	2.8	56
98	A comparison of surface fluxes at the HAPEX-Sahel fallow bush sites. Journal of Hydrology, 1997, 188-189, 400-425.	2.3	55
99	Atmospheric CO₂ modeling at the regional scale: an intercomparison of 5 meso-scale atmospheric models. Biogeosciences, 2007, 4, 1115-1126.	1.3	55
100	On observational and modelling strategies targeted at regional carbon exchange over continents. Biogeosciences, 2009, 6, 1949-1959.	1.3	55
101	The Effect of Forest on Mesoscale Rainfall: An Example from HAPEX-MOBILHY. Journal of Applied Meteorology and Climatology, 1994, 33, 445-454.	1.7	54
102	Latent heat exchange in the boreal and arctic biomes. Global Change Biology, 2014, 20, 3439-3456.	4.2	52
103	Measurements of evaporation from fallow Sahelian savannah at the start of the dry season. Quarterly Journal of the Royal Meteorological Society, 1991, 117, 749-760.	1.0	51
104	Diurnal centroid of ecosystem energy and carbon fluxes at FLUXNET sites. Journal of Geophysical Research, 2003, 108, .	3.3	51
105	Soil Moistureâ€Temperature Coupling in a Set of Land Surface Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1481-1498.	1.2	51
106	On the Use of the Term â€œEvapotranspirationâ€• Water Resources Research, 2020, 56, e2020WR028055.	1.7	51
107	Evaporation, sensible heat and canopy conductance of fallow savannah and patterned woodland in the Sahel. Journal of Hydrology, 1997, 188-189, 494-515.	2.3	50
108	Soil carbon in the Arctic and the permafrost carbon feedback. Current Opinion in Environmental Sustainability, 2012, 4, 545-551.	3.1	50

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109	Responses of surface conductance to forest environments in the Far East. Agricultural and Forest Meteorology, 2008, 148, 1926-1940.	1.9	49
110	Lagrangian and K-theory approaches in modelling evaporation from sparse canopies. Quarterly Journal of the Royal Meteorological Society, 1991, 117, 1325-1340.	1.0	49
111	Radiation, temperature, and leaf area explain ecosystem carbon fluxes in boreal and temperate European forests. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	48
112	Initializing a regional climate model with satellite-derived soil moisture. Journal of Geophysical Research, 2011, 116, .	3.3	48
113	What eddyâ€covariance measurements tell us about prior land flux errors in CO₂â€flux inversion schemes. Global Biogeochemical Cycles, 2012, 26, .	1.9	47
114	Contribution of water-limited ecoregions to their own supply of rainfall. Environmental Research Letters, 2016, 11, 124007.	2.2	47
115	Evaluation of cropland maximum light use efficiency using eddy flux measurements in North America and Europe. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	46
116	The role of endophytic methane-oxidizing bacteria in submerged <I>Sphagnum</I> in determining methane emissions of Northeastern Siberian tundra. Biogeosciences, 2011, 8, 1267-1278.	1.3	46
117	The Roughness Length for Heat of Sparse Vegetation. Journal of Applied Meteorology and Climatology, 1995, 34, 583-585.	1.7	45
118	CO2 fluxes and evaporation on a peatland in the Netherlands appear not affected by water table fluctuations. Agricultural and Forest Meteorology, 2009, 149, 1201-1208.	1.9	45
119	Regional carbon fluxes and the effect of topography on the variability of atmospheric CO2. Journal of Geophysical Research, 2007, 112, .	3.3	44
120	Predicting forest transpiration from climatological data. Agricultural and Forest Meteorology, 1988, 42, 339-353.	1.9	43
121	East Siberian Arctic inland waters emit mostly contemporary carbon. Nature Communications, 2020, 11, 1627.	5.8	43
122	The spatial variability of CO2 storage and the interpretation of eddy covariance fluxes in central Amazonia. Agricultural and Forest Meteorology, 2010, 150, 226-237.	1.9	42
123	Modelling representation errors of atmospheric CO₂ mixing ratios at a regional scale. Atmospheric Chemistry and Physics, 2008, 8, 6587-6596.	1.9	41
124	Evaporation in focus. Nature Geoscience, 2010, 3, 296-296.	5.4	41
125	Long-term changes in evapotranspiration over China and attribution to climatic drivers during 1980â€“2010. Journal of Hydrology, 2021, 595, 126037.	2.3	40
126	The role of the land surface in Sahelian climate: HAPEX-Sahel results and future research needs. Journal of Hydrology, 1997, 188-189, 1067-1079.	2.3	39

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127	Fifty years since Monteith's 1965 seminal paper: the emergence of global ecohydrology. Ecohydrology, 2014, 7, 897-902.	1.1	39
128	Detecting the long-term impacts from climate variability and increasing water consumption on runoff in the Krishna river basin (India). Hydrology and Earth System Sciences, 2006, 10, 703-713.	1.9	38
129	Modelling regional scale surface fluxes, meteorology and CO₂ mixing ratios for the Cabauw tower in the Netherlands. Biogeosciences, 2009, 6, 2265-2280.	1.3	38
130	How Well Do We Understand the Landâ€Oceanâ€Atmosphere Carbon Cycle?. Reviews of Geophysics, 2022, 60, .	9.0	38
131	Patch scale aggregation of heterogeneous land surface cover for mesoscale meteorological models. Journal of Hydrology, 1997, 190, 252-268.	2.3	37
132	Recycling of moisture in Europe: contribution of evaporation to variability in very wet and dry years. Hydrology and Earth System Sciences, 2009, 13, 1685-1697.	1.9	36
133	A summer climate regime over Europe modulated by the North Atlantic Oscillation. Hydrology and Earth System Sciences, 2011, 15, 57-64.	1.9	36
134	A note on areally-averaged evaporation and the value of the effective surface conductance. Journal of Hydrology, 1992, 138, 583-589.	2.3	35
135	Seasonal variation of photosynthetic model parameters and leaf area index from global Fluxnet eddy covariance data. Journal of Geophysical Research, 2011, 116, .	3.3	35
136	Defining area-average parameters in meteorological models for land surfaces with mesoscale heterogeneity. Journal of Hydrology, 1997, 190, 302-316.	2.3	34
137	Modelling basin-wide variations in Amazon forest productivity â€“ Part 1: Model calibration, evaluation and upscaling functions for canopy photosynthesis. Biogeosciences, 2009, 6, 1247-1272.	1.3	34
138	Modeled Microbial Dynamics Explain the Apparent Temperature Sensitivity of Wetland Methane Emissions. Global Biogeochemical Cycles, 2020, 34, e2020GB006678.	1.9	34
139	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH4 wetlands. Agricultural and Forest Meteorology, 2021, 308-309, 108528.	1.9	33
140	Evaporation and surface conductance of three temperate forests in the Netherlands. Annales Des Sciences ForestiÃ¨res, 1998, 55, 255-270.	1.1	30
141	A Carbon Cycle Science Update Since IPCC AR-4. Ambio, 2010, 39, 402-412.	2.8	29
142	Low historical nitrogen deposition effect on carbon sequestration in the boreal zone. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2542-2561.	1.3	29
143	Evaluation of a plot-scale methane emission model using eddy covariance observations and footprint modelling. Biogeosciences, 2014, 11, 4651-4664.	1.3	28
144	Lagrangian andK-theory approaches in modelling evaporation from sparse canopies. Quarterly Journal of the Royal Meteorological Society, 1991, 117, 1325-1340.	1.0	27

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145	Mesoscale modelling of the CO₂ interactions between the surface and the atmosphere applied to the April 2007 CERES field experiment. Biogeosciences, 2009, 6, 633-646.	1.3	27
146	Modelling canopy conductance under wet and dry conditions in a subtropical cloud forest. Agricultural and Forest Meteorology, 2009, 149, 1565-1572.	1.9	27
147	Nitrogen Deposition Maintains a Positive Effect on Terrestrial Carbon Sequestration in the 21st Century Despite Growing Phosphorus Limitation at Regional Scales. Global Biogeochemical Cycles, 2019, 33, 810-824.	1.9	26
148	The Parametrization of Rainfall Interception In GCMs. , 1992, 118, 455.		25
149	Detecting regional variability in sources and sinks of carbon dioxide: a synthesis. Biogeosciences, 2009, 6, 1015-1026.	1.3	25
150	Stomatal behaviour in an oak canopy. Agricultural and Forest Meteorology, 1988, 43, 99-108.	1.9	24
151	Modelling evaporation from a drained and rewetted peatland. Journal of Hydrology, 1997, 199, 252-271.	2.3	24
152	Carbon balance gradient in European forests: should we doubt â€˜surprisingâ€™ results? A reply to Piovesan & Adams. Journal of Vegetation Science, 2001, 12, 145-150.	1.1	24
153	Inverse carbon dioxide flux estimates for the Netherlands. Journal of Geophysical Research, 2012, 117, .	3.3	24
154	Global cropland monthly gross primary production in the year 2000. Biogeosciences, 2014, 11, 3871-3880.	1.3	24
155	Aggregating spatial heterogeneity in a bush vegetation patch in semi-arid SE Spain: A multi-layer model versus a single-layer model. Journal of Hydrology, 2008, 349, 156-167.	2.3	23
156	Emerging reporting and verification needs under the Paris Agreement: How can the research community effectively contribute?. Environmental Science and Policy, 2021, 122, 116-126.	2.4	23
157	Quantifying burning efficiency in megacities using the NO‹sub›2‹/sub›â^•CO ratio from the Tropospheric Monitoring Instrument (TROPOMI). Atmospheric Chemistry and Physics, 2020, 20, 10295-10310.	1.9	23
158	The ABCflux database: Arcticâ€“boreal CO‹sub›2‹/sub› flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. Earth System Science Data, 2022, 14, 179-208.	3.7	22
159	Comment on "Biotic pump of atmospheric moisture as driver of the hydrological cycle on land" by A. M. Makarieva and V. G. Gorshkov, Hydrol. Earth Syst. Sci., 11, 1013â€“1033, 2007. Hydrology and Earth System Sciences, 2009, 13, 1299-1305.	1.9	21
160	A comparison of different inverse carbon flux estimation approaches for application on a regional domain. Atmospheric Chemistry and Physics, 2011, 11, 10349-10365.	1.9	21
161	Simulation of CO2 and Attribution Analysis at Six European Peatland Sites Using the ECOSSE Model. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	21
162	Summer soil CH4 emission and uptake in taiga forest near Yakutsk, Eastern Siberia. Agricultural and Forest Meteorology, 2008, 148, 2006-2012.	1.9	20

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163	Transpiration of an oak forest as predicted from porometer and weather data. Journal of Hydrology, 1988, 97, 225-234.	2.3	19
164	Water and energy exchange in East Siberian forest: A synthesis. Agricultural and Forest Meteorology, 2008, 148, 2013-2018.	1.9	19
165	Constraining Amazonian land surface temperature sensitivity to precipitation and the probability of forest dieback. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	19
166	Emerging forestâ€“peatland bistability and resilience of European peatland carbon stores. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
167	Variability in boundary layer structure during HAPEX-Sahel wet-dry season transition. Journal of Hydrology, 1997, 188-189, 965-997.	2.3	17
168	Improving a plot-scale methane emission model and its performance at a northeastern Siberian tundra site. Biogeosciences, 2014, 11, 3985-3999.	1.3	17
169	An objective prior error quantification for regional atmospheric inverse applications. Biogeosciences, 2015, 12, 7403-7421.	1.3	17
170	Exploring the Impact of Land Cover and Topography on Rainfall Maxima in the Netherlands. Journal of Hydrometeorology, 2013, 14, 524-542.	0.7	16
171	Response of methane emissions from wetlands to the Last Glacial Maximum and an idealized Dansgaardâ€“Oeschger climate event: insights from two models of different complexity. Climate of the Past, 2013, 9, 149-171.	1.3	16
172	Photosynthesis and carbon balance of a Sahelian fallow savanna. Global Change Biology, 1998, 4, 523-538.	4.2	16
173	EClog: A handheld eddy covariance logging system. Computers and Electronics in Agriculture, 2006, 51, 110-114.	3.7	15
174	Impact of the Atlantic Multidecadal Oscillation (AMO) on deriving anthropogenic warming rates from the instrumental temperature record. Earth System Dynamics, 2014, 5, 375-382.	2.7	15
175	Analyzing Carbon Flux Measurements. Science, 2003, 301, 916b-917.	6.0	14
176	Topography induced spatial variations in diurnal cycles of assimilation and latent heat of Mediterranean forest. Biogeosciences, 2007, 4, 137-154.	1.3	14
177	Optimum vegetation characteristics, assimilation, and transpiration during a dry season: 1. Model description. Water Resources Research, 2008, 44, .	1.7	14
178	Global soil moisture bimodality in satellite observations and climate models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4299-4311.	1.2	14
179	Homogenization and polarization of the seasonal water discharge of global rivers in response to climatic and anthropogenic effects. Science of the Total Environment, 2020, 709, 136062.	3.9	14
180	Drought effects on leaf fall, leaf flushing and stem growth in the Amazon forest: reconciling remote sensing data and field observations. Biogeosciences, 2021, 18, 4445-4472.	1.3	14

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181	Drought resistance increases from the individual to the ecosystem level in highly diverse Neotropical rainforest: a meta-analysis of leaf, tree and ecosystem responses to drought. Biogeosciences, 2020, 17, 2621-2645.	1.3	12
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