

# Thomas GrÃ¼nwald

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

14,646  
citations

230014

27  
h-index

406436

35  
g-index

49  
all docs

49  
docs citations

49  
times ranked

14827  
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncovering the critical soil moisture thresholds of plant water stress for European ecosystems. <i>Global Change Biology</i> , 2022, 28, 2111-2123.	4.2	23
2	Modelling evaporation with local, regional and global BROOK90 frameworks: importance of parameterization and forcing. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 3177-3239.	1.9	4
3	Improving the representation of cropland sites in the Community Land Model (CLM) version 5.0. <i>Geoscientific Model Development</i> , 2021, 14, 573-601.	1.3	18
4	Method comparison of indirect assessments of understory leaf area index (LAI): A case study across the extended network of ICOS forest ecosystem sites in Europe. <i>Ecological Indicators</i> , 2021, 128, 107841.	2.6	12
5	Relative importance of climatic variables, soil properties and plant traits to spatial variability in net CO <sub>2</sub> exchange across global forests and grasslands. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108506.	1.9	13
6	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.	1.3	12
7	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
8	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.	1.8	35
9	PEAT-CLSM: A Specific Treatment of Peatland Hydrology in the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2130-2162.	1.3	40
10	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO <sub>2</sub> and water, and energy fluxes on daily to annual scales. <i>Geoscientific Model Development</i> , 2018, 11, 497-519.	1.3	43
11	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.	0.7	55
12	Winter respiratory C losses provide explanatory power for net ecosystem productivity. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 243-260.	1.3	7
13	ORCHIDEE-CROP (v0), a new process-based agro-land surface model: model description and evaluation over Europe. <i>Geoscientific Model Development</i> , 2016, 9, 857-873.	1.3	51
14	Validation of 3D-CMCC Forest Ecosystem Model (v.5.1) against eddy covariance data for 10 European forest sites. <i>Geoscientific Model Development</i> , 2016, 9, 479-504.	1.3	36
15	Interpreting canopy development and physiology using a European phenology camera network at flux sites. <i>Biogeosciences</i> , 2015, 12, 5995-6015.	1.3	98
16	The uncertain climate footprint of wetlands under human pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4594-4599.	3.3	171
17	Evapotranspiration amplifies European summer drought. <i>Geophysical Research Letters</i> , 2013, 40, 2071-2075.	1.5	264
18	A linked carbon cycle and crop developmental model: Description and evaluation against measurements of carbon fluxes and carbon stocks at several European agricultural sites. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 402-418.	2.5	54

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19	The net biome production of full crop rotations in Europe. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 336-345.	2.5	152
20	Contrasting response of European forest and grassland energy exchange to heatwaves. <i>Nature Geoscience</i> , 2010, 3, 722-727.	5.4	491
21	Land use regulates carbon budgets in eastern Germany: From NEE to NBP. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 1016-1025.	1.9	117
22	Exceptional carbon uptake in European forests during the warm spring of 2007: a data-model analysis. <i>Global Change Biology</i> , 2009, 15, 1455-1474.	4.2	110
23	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.	1.9	91
24	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.	1.9	509
25	Reduction of ecosystem productivity and respiration during the European summer 2003 climate anomaly: a joint flux tower, remote sensing and modelling analysis. <i>Global Change Biology</i> , 2007, 13, 634-651.	4.2	486
26	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.	4.2	863
27	A decade of carbon, water and energy flux measurements of an old spruce forest at the Anchor Station Tharandt. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 387-396.	0.8	193
28	A decade of carbon, water and energy flux measurements of an old spruce forest at the Anchor Station Tharandt. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, .	0.8	3
29	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. <i>Global Change Biology</i> , 2005, 11, 1424-1439.	4.2	2,778
30	Europe-wide reduction in primary productivity caused by the heat and drought in 2003. <i>Nature</i> , 2005, 437, 529-533.	13.7	3,245
31	Evaluation of six process-based forest growth models using eddy-covariance measurements of CO <sub>2</sub> and H <sub>2</sub> O fluxes at six forest sites in Europe. <i>Global Change Biology</i> , 2002, 8, 213-230.	4.2	135
32	Productivity overshadows temperature in determining soil and ecosystem respiration across European forests. <i>Global Change Biology</i> , 2001, 7, 269-278.	4.2	843
33	Respiration as the main determinant of carbon balance in European forests. <i>Nature</i> , 2000, 404, 861-865.	13.7	1,438
34	Estimates of the Annual Net Carbon and Water Exchange of Forests: The EUROFLUX Methodology. <i>Advances in Ecological Research</i> , 1999, , 113-175.	1.4	1,540