

Achim Grelle

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

2,089

citations

16

h-index

29

g-index

29

ext. papers

2,369

ext. citations

9.3

avg, IF

3.95

L-index

#	Paper	IF	Citations
26	The ABCflux database: ArcticBoreal CO ₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. <i>Earth System Science Data</i> , 2022 , 14, 179-208	10.5	3
25	Global maps of soil temperature.. <i>Global Change Biology</i> , 2021 ,	11.4	8
24	ForestTemp - Sub-canopy microclimate temperatures of European forests. <i>Global Change Biology</i> , 2021 , 27, 6307-6319	11.4	5
23	The impact of wildfire on biogeochemical fluxes and water quality in boreal catchments. <i>Biogeosciences</i> , 2021 , 18, 3243-3261	4.6	1
22	Affordable relaxed eddy accumulation system to measure fluxes of H ₂ O, CO ₂ , CH ₄ and N ₂ O from ecosystems. <i>Agricultural and Forest Meteorology</i> , 2021 , 307, 108514	5.8	0
21	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020 , 10, 555-560	21.4	44
20	The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020 , 15, 104004	6.2	11
19	Carbon use efficiency of mycorrhizal fungal mycelium increases during the growing season but decreases with forest age across a Pinus sylvestris chronosequence. <i>Journal of Ecology</i> , 2019 , 107, 2808-2822	6.22	8
18	Rapid ecological response and intensified knowledge accumulation following a north European mega-fire. <i>Scandinavian Journal of Forest Research</i> , 2019 , 34, 234-253	1.7	30
17	The impact of cultivation on CO ₂ and CH ₄ fluxes over organic soils in Sweden. <i>Agricultural and Forest Meteorology</i> , 2017 , 243, 1-8	5.8	6
16	Net CO ₂ emissions from a primary boreo-nemoral forest over a 10 year period. <i>Forest Ecology and Management</i> , 2017 , 398, 164-173	3.9	8
15	Do the energy fluxes and surface conductance of boreal coniferous forests in Europe scale with leaf area?. <i>Global Change Biology</i> , 2016 , 22, 4096-4113	11.4	23
14	Energy exchange and water budget partitioning in a boreal minerogenic mire. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1-13	3.7	57
13	Carbon balance of a forest ecosystem after stump harvest. <i>Scandinavian Journal of Forest Research</i> , 2012 , 27, 762-773	1.7	23
12	Storms can cause Europe-wide reduction in forest carbon sink. <i>Global Change Biology</i> , 2009 , 15, 346-355	11.4	154
11	Magnani et al. reply. <i>Nature</i> , 2008 , 451, E3-E4	50.4	20
10	Addressing the influence of instrument surface heat exchange on the measurements of CO ₂ flux from open-path gas analyzers. <i>Global Change Biology</i> , 2008 , 14, 1854-1876	11.4	281

9	Contemporary carbon accumulation in a boreal oligotrophic minerogenic mire is a significant sink after accounting for all C-fluxes. <i>Global Change Biology</i> , 2008 , 14, 2317-2332	11.4	262
8	Measurement of net ecosystem exchange, productivity and respiration in three spruce forests in Sweden shows unexpectedly large soil carbon losses. <i>Biogeochemistry</i> , 2008 , 89, 43-60	3.8	49
7	The likely impact of elevated [CO ₂], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems: a literature review. <i>New Phytologist</i> , 2007 , 173, 463-480	9.8	498
6	Large carbon-sink potential by Kyoto forests in Sweden – case study on willow plantations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007 , 59, 910-918	3.3	15
5	Current Carbon Balance of the Forested Area in Sweden and its Sensitivity to Global Change as Simulated by Biome-BGC. <i>Ecosystems</i> , 2006 , 9, 894-908	3.9	28
4	Net primary production and light use efficiency in a mixed coniferous forest in Sweden. <i>Plant, Cell and Environment</i> , 2005 , 28, 412-423	8.4	77
3	Air temperature triggers the recovery of evergreen boreal forest photosynthesis in spring. <i>Global Change Biology</i> , 2003 , 9, 1410-1426	11.4	237
2	Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. <i>Water Resources Research</i> , 2002 , 38, 30-1-30-11	5.4	139
1	Eddy-correlation system for long-term monitoring of fluxes of heat, water vapour and CO ₂ . <i>Global Change Biology</i> , 1996 , 2, 297-307	11.4	101