

Achim Grelle

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,714
citations

361413
20
h-index

552781
26
g-index

29
all docs

29
docs citations

29
times ranked

4414
citing authors

#	ARTICLE	IF	CITATIONS
1	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. New Phytologist, 2007, 173, 463-480.	7.3	579
2	Addressing the influence of instrument surface heat exchange on the measurements of CO ₂ flux from open-path gas analyzers. Global Change Biology, 2008, 14, 1854-1876.	9.5	318
3	Contemporary carbon accumulation in a boreal oligotrophic minerogenic mire – a significant sink after accounting for all C-fluxes. Global Change Biology, 2008, 14, 2317-2332.	9.5	299
4	Air temperature triggers the recovery of evergreen boreal forest photosynthesis in spring. Global Change Biology, 2003, 9, 1410-1426.	9.5	273
5	Storms can cause Europe-wide reduction in forest carbon sink. Global Change Biology, 2009, 15, 346-355.	9.5	178
6	Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. Water Resources Research, 2002, 38, 30-1-30-11.	4.2	169
7	Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144.	9.5	113
8	Eddy-correlation system for long-term monitoring of fluxes of heat, water vapour and CO ₂ . Global Change Biology, 1996, 2, 297-307.	9.5	109
9	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. Nature Climate Change, 2020, 10, 555-560.	18.8	106
10	Energy exchange and water budget partitioning in a boreal minerogenic mire. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1-13.	3.0	94
11	Net primary production and light use efficiency in a mixed coniferous forest in Sweden. Plant, Cell and Environment, 2005, 28, 412-423.	5.7	85
12	ForestTemp – Sub-canopy microclimate temperatures of European forests. Global Change Biology, 2021, 27, 6307-6319.	9.5	57
13	Measurement of net ecosystem exchange, productivity and respiration in three spruce forests in Sweden shows unexpectedly large soil carbon losses. Biogeochemistry, 2008, 89, 43-60.	3.5	54
14	Rapid ecological response and intensified knowledge accumulation following a north European mega-fire. Scandinavian Journal of Forest Research, 2019, 34, 234-253.	1.4	43
15	Do the energy fluxes and surface conductance of boreal coniferous forests in Europe scale with leaf area?. Global Change Biology, 2016, 22, 4096-4113.	9.5	39
16	Current Carbon Balance of the Forested Area in Sweden and its Sensitivity to Global Change as Simulated by Biome-BGC. Ecosystems, 2006, 9, 894-908.	3.4	32
17	The biophysical climate mitigation potential of boreal peatlands during the growing season. Environmental Research Letters, 2020, 15, 104004.	5.2	31
18	Carbon balance of a forest ecosystem after stump harvest. Scandinavian Journal of Forest Research, 2012, 27, 762-773.	1.4	28

#	ARTICLE	IF	CITATIONS
19	The ABCflux database: Arcticâ€“boreal CO ₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. Earth System Science Data, 2022, 14, 179-208.	9.9	22
20	Magnani et al. reply. Nature, 2008, 451, E3-E4.	27.8	20
21	Carbon use efficiency of mycorrhizal fungal mycelium increases during the growing season but decreases with forest age across a <i>Pinus sylvestris</i> chronosequence. Journal of Ecology, 2019, 107, 2808-2822.	4.0	17
22	Large carbon-sink potential by Kyoto forests in Swedenâ€“a case study on willow plantations. Tellus, Series B: Chemical and Physical Meteorology, 2022, 59, 910.	1.6	16
23	Net CO2 emissions from a primary boreo-nemoral forest over a 10 year period. Forest Ecology and Management, 2017, 398, 164-173.	3.2	12
24	The impact of wildfire on biogeochemical fluxes and water quality in boreal catchments. Biogeosciences, 2021, 18, 3243-3261.	3.3	9
25	The impact of cultivation on CO ₂ and CH ₄ fluxes over organic soils in Sweden. Agricultural and Forest Meteorology, 2017, 243, 1-8.	4.8	7
26	Affordable relaxed eddy accumulation system to measure fluxes of H ₂ O, CO ₂ , CH ₄ and N ₂ O from ecosystems. Agricultural and Forest Meteorology, 2021, 307, 108514.	4.8	2