

Achim Grelle

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,714
citations

361045

20
h-index

552369

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. <i>New Phytologist</i> , 2007, 173, 463-480.	3.5	579
2	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.	4.2	318
3	Contemporary carbon accumulation in a boreal oligotrophic minerogenic mire – a significant sink after accounting for all C-fluxes. <i>Global Change Biology</i> , 2008, 14, 2317-2332.	4.2	299
4	Air temperature triggers the recovery of evergreen boreal forest photosynthesis in spring. <i>Global Change Biology</i> , 2003, 9, 1410-1426.	4.2	273
5	Storms can cause Europe-wide reduction in forest carbon sink. <i>Global Change Biology</i> , 2009, 15, 346-355.	4.2	178
6	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.	1.7	169
7	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	4.2	113
8	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.	4.2	109
9	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020, 10, 555-560.	8.1	106
10	Energy exchange and water budget partitioning in a boreal minerogenic mire. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1-13.	1.3	94
11	Net primary production and light use efficiency in a mixed coniferous forest in Sweden. <i>Plant, Cell and Environment</i> , 2005, 28, 412-423.	2.8	85
12	ForestTemp – Subcanopy microclimate temperatures of European forests. <i>Global Change Biology</i> , 2021, 27, 6307-6319.	4.2	57
13	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.	1.7	54
14	Rapid ecological response and intensified knowledge accumulation following a north European mega-fire. <i>Scandinavian Journal of Forest Research</i> , 2019, 34, 234-253.	0.5	43
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.	4.2	39
16	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.	1.6	32
17	The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020, 15, 104004.	2.2	31
18	Carbon balance of a forest ecosystem after stump harvest. <i>Scandinavian Journal of Forest Research</i> , 2012, 27, 762-773.	0.5	28

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19	The ABCflux database: Arcticâ€“boreal 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.	3.7	22
20	Magnani et al. reply. <i>Nature</i> , 2008, 451, E3-E4.	13.7	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. <i>Journal of Ecology</i> , 2019, 107, 2808-2822.	1.9	17
22	Large carbon-sink potential by Kyoto forests in Swedenâ€“a case study on willow plantations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 59, 910.	0.8	16
23	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.	1.4	12
24	The impact of wildfire on biogeochemical fluxes and water quality in boreal catchments. <i>Biogeosciences</i> , 2021, 18, 3243-3261.	1.3	9
25	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.	1.9	7
26	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.	1.9	2