Sarah E Chadburn

List of Publications by Year
in descending order

19 papers	1,313 citations	567144 15 h-index	752573 20 g-index
20 all docs	20 docs citations	20 times ranked	2329 citing authors

#	Article	IF	Citations
1	Large stocks of peatland carbon and nitrogen are vulnerable to permafrost thaw. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20438-20446.	3.3	307
2	An observation-based constraint on permafrost loss as a function of global warming. Nature Climate Change, 2017, 7, 340-344.	8.1	257
3	Soil moisture and hydrology projections of the permafrost region â€“ a model intercomparison. Cryosphere, 2020, 14, 445-459.	1.5	85
4	An improved representation of physical permafrost dynamics in the JULES land-surface model. Geoscientific Model Development, 2015, 8, 1493-1508.	1.3	79
5	Carbon budgets for 1.5 and 2â€‰Â°C targets lowered by natural wetland and permafrost feedbacks. Nature Geoscience, 2018, 11, 568-573.	5.4	74
6	A 16-year record (2002â€“2017) of permafrost, active-layer, and meteorological conditions at the Samoylov Island Arctic permafrost research site, Lena River delta, northern Siberia: an opportunity to validate remote-sensing data and land surface, snow, and permafrost models. Earth System Science Data, 2019, 11, 261-299.	3.7	69
7	A vertical representation of soil carbon in the JULES land surface scheme (vn4.3_permafrost) with a focus on permafrost regions. Geoscientific Model Development, 2017, 10, 959-975.	1.3	63
8	Quantifying uncertainties of permafrost carbonâ€“climate feedbacks. Biogeosciences, 2017, 14, 3051-3066.	1.3	59
9	Temperature effects on carbon storage are controlled by soil stabilisation capacities. Nature Communications, 2021, 12, 6713.	5.8	58
10	Impact of model developments on present and future simulations of permafrost in a global land-surface model. Cryosphere, 2015, 9, 1505-1521.	1.5	54
11	Leaching of dissolved organic carbon from mineral soils plays a significant role in the terrestrial carbon balance. Global Change Biology, 2021, 27, 1083-1096.	4.2	47
12	A 20-year record (1998â€“2017) of permafrost, active layer and meteorological conditions at a high Arctic permafrost research site (Bayelva, Spitsbergen). Earth System Science Data, 2018, 10, 355-390.	3.7	47
13	Modeled Microbial Dynamics Explain the Apparent Temperature Sensitivity of Wetland Methane Emissions. Global Biogeochemical Cycles, 2020, 34, e2020GB006678.	1.9	34
14	Time dependent black holes and scalar hair. Classical and Quantum Gravity, 2014, 31, 195006.	1.5	23
15	Representation of dissolved organic carbon in the JULES land surface model (vn4.4_JULES-DOCM). Geoscientific Model Development, 2018, 11, 593-609.	1.3	21
16	The Response of Permafrost and Highâ€Latitude Ecosystems Under Largeâ€Scale Stratospheric Aerosol Injection and Its Termination. Earth's Future, 2019, 7, 605-614.	2.4	17
17	A new approach to simulate peat accumulation, degradation and stability in a global land surface scheme (JULES vn5.8_accumulate_soil) for northern and temperate peatlands. Geoscientific Model Development, 2022, 15, 1633-1657.	1.3	6
18	Explicitly modelling microtopography in permafrost landscapes in a land surface model (JULES) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.3	6

#	Article	IF	Citations
19	Thawing Permafrost as a Nitrogen Fertiliser: Implications for Climate Feedbacks. Nitrogen, 2022, 3, 353-375.	0.6	4