Jonathan E Hickman

List of Publications by Year
in descending order

28 papers	2,495 citations	623188 14 h-index	610482 24 g-index
36 all docs	36 docs citations	36 times ranked	5302 citing authors

#	Article	IF	Citations
1	A communal catalogue reveals Earthâ€™s multiscale microbial diversity. Nature, 2017, 551, 457-463.	13.7	1,942
2	Kudzu (Pueraria montana) invasion doubles emissions of nitric oxide and increases ozone pollution. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10115-10119.	3.3	73
3	A potential tipping point in tropical agriculture: Avoiding rapid increases in nitrous oxide fluxes from agricultural intensification in Kenya. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 938-951.	1.3	59
4	Metaâ€analysis on the potential for increasing nitrogen losses from intensifying tropical agriculture. Global Change Biology, 2020, 26, 1668-1680.	4.2	51
5	Nitrous oxide (N2O) emissions in response to increasing fertilizer addition in maize (Zea mays L.) agriculture in western Kenya. Nutrient Cycling in Agroecosystems, 2014, 100, 177-187.	1.1	47
6	Current and future nitrous oxide emissions from African agriculture. Current Opinion in Environmental Sustainability, 2011, 3, 370-378.	3.1	46
7	The Climate Response to Emissions Reductions Due to COVIDâ€19: Initial Results From CovidMIP. Geophysical Research Letters, 2021, 48, e2020GL091883.	1.5	43
8	Nonlinear response of nitric oxide fluxes to fertilizer inputs and the impacts of agricultural intensification on tropospheric ozone pollution in Kenya. Global Change Biology, 2017, 23, 3193-3204.	4.2	29
9	The nativeâ€“invasive balance: implications for nutrient cycling in ecosystems. Oecologia, 2013, 173, 319-328.	0.9	26
10	Assessing non-CO2 climate-forcing emissions and mitigation in sub-Saharan Africa. Current Opinion in Environmental Sustainability, 2014, 9-10, 65-72.	3.1	25
11	Challenges and opportunities for enhancing food security and greenhouse gas mitigation in smallholder farming in sub-Saharan Africa. A review. Food Security, 2021, 13, 457-476.	2.4	25
12	Reductions in NO ₂ burden over north equatorial Africa from decline in biomass burning in spite of growing fossil fuel use, 2005 to 2017. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	22
13	Effects of fertilizer on inorganic soil N in East Africa maize systems: vertical distributions and temporal dynamics. Ecological Applications, 2016, 26, 1907-1919.	1.8	18
14	Satellite evidence of substantial rain-induced soil emissions of ammonia across the Sahel. Atmospheric Chemistry and Physics, 2018, 18, 16713-16727.	1.9	17
15	Impacts of enhanced fertilizer applications on tropospheric ozone and crop damage over sub-Saharan Africa. Atmospheric Environment, 2018, 180, 117-125.	1.9	14
16	The AgMIP Coordinated Climate-Crop Modeling Project (C3MP): Methods and Protocols. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2015, , 191-220.	0.4	10
17	Biogeochemical impacts of the northward expansion of kudzu under climate change: the importance of ecological context. Ecosphere, 2013, 4, 1-15.	1.0	9
18	Changes in satellite retrievals of atmospheric composition over eastern China during the 2020 COVID-19 lockdowns. Atmospheric Chemistry and Physics, 2021, 21, 18333-18350.	1.9	8

#	Article	IF	Citations
19	Dominant contribution of nitrogen compounds in precipitation chemistry in the Lake Victoria catchment (East Africa). Environmental Research Letters, 2021, 16, 045013.	2.2	7
20	Continental and Ecoregionâ€Specific Drivers of Atmospheric NO₂ and NH₃ Seasonality Over Africa Revealed by Satellite Observations. Global Biogeochemical Cycles, 2021, 35, e2020GB006916.	1.9	5
21	Changes in biomass burning, wetland extent, or agriculture drive atmospheric NH₃ trends in select African regions. Atmospheric Chemistry and Physics, 2021, 21, 16277-16291.	1.9	3
22	Biology's growing role. Nature Geoscience, 2015, 8, 173-173.	5.4	2
23	Assessing Synergies and Trade-Offs from Nitrogen Use in Africa. , 2020, , 65-82.		2
24	Carbon sinks and sinking tundra. Nature Geoscience, 2014, 7, 784-784.	5.4	1
25	Introduction to the SAMPLES Approach. , 2016, , 1-13.		1
26	Little Effect of Land Use on N 2 O and NO Emission Pulses Following Rewetting of Dry Soils Across Seasonally Dry subâ€Saharan Africa. Journal of Geophysical Research G: Biogeosciences, 2021, 126, .	1.3	1
27	Putting local food to the test. Nature Geoscience, 2015, 8, 824-824.	5.4	0
28	Microbial Communities and Processes Under Climate and Land-use Change in the Tropics. , 2016, , 167-184.		0