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Research Interests

- Grassland ecology
- Global change
- Biometeorology
- Extreme climatic events
- Carbon/water/energy fluxes

Publication

Divergent forcing of water use efficiency from aridity in two meadows of the Mongolian Plateau, Journal of Hydrology, 2021, DOI:10.1016/j.jhydrol.2020.125799

Non-climatic component-provoked substantial spatiotemporal changes of carbon and water use efficiency on the Mongolian Plateau, Environmental Research Letters, 2020, DOI: 10.1088/1748-9326/ab9692

Joint forcing of heat waves and mowing poses a threat to grassland ecosystems: Evidence from a manipulative experiment, Land Degradation & Development, 2019, DOI:10.1002/ldr.3483



Heavy mowing enhances the effects of heat waves on grassland carbon and water fluxes, Science of the Total Environment, 2018, DOI:10.1016/j.scitotenv.2018.01.287

Grazing effects on surface energy fluxes in a desert steppe on the Mongolian Plateau, Ecological Applications, 2017, DOI:10.1002/eap.1459

Grassland productivity and carbon sequestration in Mongolian grasslands: The underlying mechanisms and nomadic implications, Environmental Research, 2017, DOI: 10.1016/j.envres.2017.08.001

Heat waves reduce ecosystem carbon sink strength in a Eurasian meadow steppe, Environmental Research, 2016, DOI:10.1016/j.envres.2015.09.004

Diurnal to annual changes in latent, sensible heat, and CO₂ fluxes over a Laurentian Great Lake: A case study in Western Lake Erie, Journal of Geophysical Research-Biogeosciences, 2015, DOI: 10.1002/2015JG003025

Grazing alters the biophysical regulation of carbon fluxes in a desert steppe, Environmental Research Letters, 2013, DOI: 10.1088/1748-9326/8/2/025012

Spatial variability in soil heat flux at three Inner Mongolia steppe ecosystems, Agricultural and Forest Meteorology, 2008, DOI:10.1016/j.agrformet.2008.04.008

Grassland Ecosystems of China, Singapore, Spring-Nature, 2020, ISBN:978-981-15-3421-8

Eddy Covariance: A Practical Guide to Measurement and Data Analysis, Beijing, Higher Education Press, 2016, ISBN:978-704-04-5176-4