

Special Issue

Advance in Grassland Productivity and Sustainability

Message from the Guest Editor

Grassland is an important ecosystem that cover approximately 40% of the global land surface and 70% of agricultural area. It produces about 10% of terrestrial plant biomass and 20–30% of soil organic carbon (SOC). Grassland delivers vital multiple ecosystem services, including food production, biodiversity, climate regulation, water quality, mediation of water flows, erosion control and landscape, and recreation.

However, grassland is threatened by many factors, such as overgrazing, drought, and unsustainable agricultural practices. Increasing grassland productivity and sustainability require a more widespread application of efficient and cost-effective management and policies. Strategies to improve grassland productivity such as optimizing N fertilizer rates, stocking rate, legume and supplements, grazing management, manipulation of daily herbage allowance, mitigation of greenhouse gas emissions, carbon sequestration, and improving biodiversity and proper use of grass by-products.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2023)



Agronomy

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Impact Factor 3.4
CiteScore 6.7



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