

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

Dr. Mohamed Abdalla

Institute of Biological and Environmental Sciences, School of Biological Sciences, University of Aberdeen, 23 St. Machar Drive, Aberdeen AB24 3UU, UK

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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