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Agro-Ecology for Grassland-Based Farming Systems

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Message from the Collection Editor

The application of ecological concepts and principles to the design and management of agro-ecosystems can improve sustainable agriculture through a better use of existing resources and technologies by finding synergies between plants, soil, climate and management practices. This Special Issue aims to exhibit that changes in the agronomic rationale are possible in the reinvention of farming systems using agro-ecological engineering approaches combining several methods of knowledge production, including analytical (decontextualised) methods such as experimentation and on-farm observations, and holistic (contextualised) methods based on participatory approaches with stakeholders.

Methodological contributions, case studies and modelling advances are welcomed, with the aim to (i) highlight the role of plant functional diversity in agroecosystem performance, (ii) assess the complementarity of grasslands with other surfaces to secure agricultural systems, (iii) analyse the links between practices, principles and properties, and (iv) to illustrate and redesign paths in line with agro-ecological trajectories.

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Message from the Editor-in-Chief

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