

Special Issue

Sustainable Transitions Toward Climate-Neutral and Multifunctional Extensive Livestock Systems

Message from the Guest Editors

Extensive livestock systems are vital for sustaining rural landscapes, preserving biodiversity, and ensuring food security. However, they face increasing pressure to reduce greenhouse gas emissions, improve animal welfare, and adapt to socio-economic and climatic changes. This Special Issue, "Sustainable Transitions Toward Climate-Neutral and Multifunctional Extensive Livestock Systems", aims to explore innovative strategies, technologies, and governance models driving the shift toward sustainability and climate neutrality. We welcome interdisciplinary contributions on low-carbon livestock management, circular bioeconomy, ecosystem services, precision and digital tools for grazing, socio-economic drivers of sustainability, and policy frameworks supporting climate-smart livestock. Comparative studies, case analyses, and integrated assessments linking environmental, social, and economic dimensions are encouraged. By engaging researchers, policymakers, and practitioners, this Special Issue seeks to identify pathways that reconcile productivity, resilience, and environmental integrity in extensive livestock systems for a climate-neutral, multifunctional agricultural future.

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