Special Issue

Sustainable Forage-Based Livestock Systems: Strategies for Enhancing Farm Productivity, Soil Health, and Carbon Sequestration

Message from the Guest Editor

Sustainable forage-based livestock systems have been shown to play a crucial role in improving farm productivity while enhancing soil health and mitigating climate change. The innovative management strategies, including optimized grazing practices, diversified forage crops, and integrated nutrient cycling, has the potential to reduce the carbon footprint of livestock production and promote long-term environmental sustainability. This Special Issue aims to explore cutting-edge research on sustainable forage production, soil carbon sequestration, and climate-smart livestock management. Key topics include forage species selection for resilience, adaptive grazing techniques, the role of legumes and cover crops in improving soil structure and fertility, and the potential of agroecological approaches to balance productivity with ecosystem services. Additionally, studies on the socioeconomic and policy aspects influencing the adoption of sustainable forage-based livestock systems are welcomed. Original research, reviews, and case studies addressing these challenges and opportunities are invited for publication in this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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