

Special Issue

High-Producing Ruminants: Energy Metabolism and Greenhouse Gas Mitigation

Message from the Guest Editor

This Special Issue addresses key challenges in the sustainable intensification of ruminant livestock production systems, highlighting the link between increased productivity, energy demands, and environmental responsibility. We invite original research that explores energy partitioning and feed efficiency in high-producing ruminants across different production settings. Priority topics include innovative approaches to reduce enteric methane intensity through dietary interventions, rumen modulation, and feed additives. Manuscripts examining the use of feed resources and agro-industrial by-products to optimize energy supply while also lowering greenhouse gas emissions are especially encouraged. Studies on energy use efficiency, energy requirement estimation, and carbon footprint assessments of ruminant products in both intensive and smallholder systems are also welcome. This Special Issue aims to improve scientific understanding of how to balance productivity with climate action, supporting the development of economically sustainable and environmentally friendly ruminant production systems worldwide.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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