



*animals*



an Open Access Journal by MDPI

## Sustainable Management of Livestock Farms for Reducing Environmental Loading of Nutrients

Guest Editor:

**Dr. Partha Ray**

School of Agriculture, Policy and Development, University of Reading, Reading, Berkshire RG6 6AH, UK

Deadline for manuscript submissions:

**closed (30 November 2020)**

### Message from the Guest Editor

The traditional use of livestock manure as a fertilizer to improve soil fertility has been under scrutiny because of the accumulation of manure-borne nutrients in soil and subsequent water pollution. The continuous land application of manure-borne nutrients at a rate higher than what crops can utilize has resulted in the saturation of soil nutrient reserve, which contributes to nutrient loss to surface and ground water via surface runoff and leaching, respectively, leading to unwanted algal bloom in waterbodies and eutrophication. In addition, the intensification of livestock production has caused nutrient surplus on livestock farms and aggravated the issue of spatial variability in soil nutrient status. This Special Issue will publish current research on identifying, developing, and applying sustainable on-farm management strategies to reduce nutrient accumulation on livestock farms and subsequent nutrient loss to the environment. We are also seeking contributions on farmer-friendly but robust methods/tools to quantify nutrient status and utilization efficiency at the farm level.



[mdpi.com/si/30644](https://mdpi.com/si/30644)

**Special** Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Clive J. C. Phillips

1. Institute of Veterinary Medicine  
and Animal Sciences, Estonian  
University of Life Sciences,  
Kreutzwaldi 1, 51014 Tartu,  
Estonia

2. Curtin University Sustainability  
Policy (CUSP) Institute, Kent St.,  
Bentley 6102, Australia

## 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 (2023, ranks 10/80 (Q1) in 'Agriculture, Dairy & Animal Science'; 16/167 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.0.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

**Journal Rank:** JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)

## Contact Us

---

*Animals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/animals](http://mdpi.com/journal/animals)  
[animals@mdpi.com](mailto:animals@mdpi.com)  
[X@Animals\\_MDPI](https://twitter.com/Animals_MDPI)