Special Issue

Fertilizer Management in Integrated Crop-Livestock System for a Sustainable Agriculture Production

Message from the Guest Editors

Agricultural environmental problems are mainly due to excessively high decoupling between carbon, nitrogen, and phosphorus and their associated geochemical cycles within intensified agro-ecosystems due to fertilizer management. Hence, agriculture is facing an ever-greatest challenge: how to continue to increase production for food security and, at the same time, protect and restore the environment? In this respect, recoupling C–N–P cycles by increasing spatial and temporal diversity within agro-ecosystems through encouraging the development of integrated crop-livestock systems, instead of monocultures and intensive livestock production separately, should allow reconciling agriculture production with sufficient preservation of the environmental quality.

The objectives of this Special Issue are to provide knowledge on the different ecological services associated with integrated crop-livestock systems in contrast to simplified and separated crop and livestock production, to determine the socioeconomic conditions facilitating their introduction at different scales, and to analyze crop/animal production management in these more complex systems.

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