Special Issue

GHG Mitigation in Forage-Based and Conventional Livestock Production Systems in Tropical and Subtropical Climate Regions of the World

Message from the Guest Editor

Dual-purpose cattle systems are dominant in tropical regions but with low productivity and higher greenhouse emissions. Current research indicates that C4 grasses (dominant forages in tropical and subtropical regions) produce high methane (CH4) yield when cattle consume them. In contrast, growing evidence suggests that native tropical legume trees used as forage can reduce CH4 production. There are efforts to adopt agroecological and sustainable practices that help to capture atmospheric CO2 and increase productivity and resilience. These initiatives are small, with limited progress to mitigate climate change. Therefore, this Special Issue welcomes manuscripts that document the effect of tropical tanniferous and saponiferous plants and other feed additives to mitigate CH4 production; use of agro-silvopastoral and agroecological systems to reduce GHG emissions; improved husbandry practices to increase animal productivity; intensification of dual-purpose cattle production systems, reduced intensity of emissions; and last but not least, documented efforts conducted to quantify the emissions of GHGs and national inventory preparation of these gases for the warmer regions of the world.

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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