Special Issue

Strategies for Greenhouse Gas Emissions Mitigation

Message from the Guest Editor

The challenges of today's agriculture involve a reduction of its impact on climate change. The main greenhouse gases associated with agriculture are carbon dioxide (CO_2), nitrous oxide (N_2O) and methane (CH_4). The use of fertilizers, both organic and mineral, and the management performed are the main factors that regulate greenhouse gas emissions in agricultural soils. That is why strategies must be developed to mitigate the environmental impact of agriculture. The correct fertilizer should be applied at the right time and at an appropriate dose for effective mitigation. Other strategies have also been developed, like the use of urease or nitrification inhibitors, or the changes in soil management. The reduction of soil tillage, the use of crop rotations or cover crops are also strategies to mitigate greenhouse gas emissions from agriculture. However, the combined use of some of these strategies does not have to be positive or work in all edaphoclimatic conditions. That is why the challenge is focused on developing new mitigation strategies as efficiently as possible for each crop and soil and climate conditions.

Guest Editor

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