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Mitigation of Greenhouse Gases in Agroecosystems

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Message from the Guest Editors

As a result of different management practices—along with climate and soil—agroecosystems strongly differ in terms of nutrient inputs and soil environmental conditions for plant and microbial activities, which exert a strong influence on the GHG balance. Quantification of fluxes of the three main GHGs—carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O)—from agroecosystems, in order to understand the relationships between management and production and consumption of GHGs, is the first step for the development of evidence-based mitigation strategies.

In this Special Issue, we aim at compiling studies investigating GHG fluxes from agroecosystems worldwide (e.g., croplands, grasslands, agroforestry), focusing on their role in GHG turnover and on the effect of management practices on the GHG balance of these systems. We are looking for studies, not restricted by regions or agroecosystem type, where CO2, CH4, and N2O are jointly evaluated, as well as those which target a single gas. Both measuring and modeling approaches, or a combination of both techniques, at any spatial scale, are welcomed.

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Message from the Editor-in-Chief

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