



C and N Cycling and Greenhouse Gases Emission in Agroecosystem

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Message from the Guest Editor

Dear Colleagues,

The agriculture sector is an important source of greenhouse gas (CO₂, CH₄ and N₂O) emissions to the atmosphere. These emissions are caused by agricultural management practices, including landuse change, tillage, harvest, slash and burn, application of chemical fertilizer and manure, irrigation and drainage, grazing and animal husbandry, which influence C and N cycling in agroecosystems. An agroecosystem is, not only present as an ecosystem under agricultural management, but also connected to other ecosystems, including natural ecosystems. Studies on the relationship between microbial activities (aerobic and anaerobic organic matter decomposition, nitrification and denitrification) and climate factors (temperature, precipitation, humidity, etc.) and soil environmental factors (soil temperature, soil moisture, groundwater level, soil pH, SOC, SON, mineral nitrogen, water soluble organic carbon, etc.) are also important to parameterization for simulation models. I would like to invite all of you, studying C and N cycling and greenhouse gas emissions in agroecosystems, to contribute your papers to this Special Issue.<





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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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