

Special Issue

Cropping System Impact on Soil Quality and Greenhouse Gas Emissions

Message from the Guest Editors

Atmospheric concentrations of the greenhouse gases (GHG) carbon dioxide (CO₂), nitrous oxide (N₂O), and methane (CH₄) continue to rise globally due to anthropogenic activities. Soil tillage, sowing, fertilizer, and pesticide addition have significant impacts on GHG emissions through perturbations in the carbon (C), nitrogen (N), and water dynamics of these agroecosystems. Agriculture is responsible for approximately 12% of global greenhouse gas emissions. Mitigation of greenhouse gas emissions from agriculture is a measure that aims to increase soil organic carbon sequestration and reduce greenhouse gas emission rates through improved management practices. This Special Issue focuses on the role that agricultural cropping systems play in greenhouse gas emissions. For this reason, it welcomes highly interdisciplinary quality studies from disparate research fields, including agriculture, landscaping, and environmentalism.

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Deadline for manuscript submissions

closed (20 January 2023)



Agriculture

an Open Access Journal
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Impact Factor 3.6
CiteScore 6.3



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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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