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.

Guest Editors

Prof. Dr. Joanna Lemanowicz

Department of Biogeochemistry and Soil Science, Bydgoszcz University of Science and Technology, Al. prof. S. Kaliskiego 7, 85-796 Bydgoszcz, Poland

Prof. Dr. Agata Bartkowiak

Department of Biogeochemistry and Soil Science, Bydgoszcz University of Science and Technology, Al. prof. S. Kaliskiego 7, 85-796 Bydgoszcz, Poland

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Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

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Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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