Special Issue

A Path for Circular Economy in Agriculture: From Organic Waste to Sustainable Energy and Soil Fertility

Message from the Guest Editors

The transition to a circular economy in agriculture offers a promising way to handle organic waste more effectively, improving both sustainability and resource efficiency. Agricultural and municipal organic residues often contribute to inadequately managed environmental challenges, including greenhouse gas emissions and soil degradation. Increasing the efficacy of organic waste treatments, such as anaerobic digestion in producing biogas and digestate and composting in creating high-quality soil amendments, can improve the valorization and sustainability of organic resources. In particular, anaerobic digestion can convert these residues into renewable energy, reducing reliance on fossil fuels and mitigating greenhouse gas emissions. This Special Issue wants to explore innovative strategies for converting organic waste into sustainable energy and soil enrichment, highlighting new solutions and technological advancements in waste-to-energy and waste-to-soil systems. The objective is to advance knowledge of these processes, promoting a circular economy in agriculture that fosters environmental sustainability and improves soil health.

Guest Editors

Dr. Daniela Pezzolla

Dr. Nicolò Montegiove

Dr. Alberto Maria Gambelli

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

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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