

Special Issue

Sustainable Development in Agricultural Machinery and Technology

Message from the Guest Editor

Traditional agricultural farming models commonly face issues such as high carbon emissions, soil structure degradation, and low water resource utilization efficiency, resulting in severe agricultural production waste factors and hindering the sustainable development of the agricultural economy. Innovative studies on developing sustainable agricultural machinery oriented towards low-carbon energy conservation have become particularly important, providing practical solutions for the shift towards sustainable agriculture.

This SI focuses on the design and innovation of sustainable agricultural machinery, with an emphasis on exploring the environmental impacts of agricultural machinery technological innovation and its application in resource conservation. While agricultural mechanization has been studied in current research, discussions centered on sustainability remain fragmented and lack organic integration with agricultural economic factors. This SI will provide systematic solutions for efficient agricultural resource utilization and ecological protection by establishing a development framework for sustainable agricultural machinery encompassing the entire industry chain.

Guest Editor

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Editor-in-Chief

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