

Special Issue

Agroecological Approaches to Enhancing Productivity and Ecosystem Services

Message from the Guest Editors

Agroecology provides a holistic framework for understanding and managing agricultural systems in ways that enhance both productivity and ecosystem services. By integrating ecological principles into farming practices, agroecological approaches promote resource-use efficiency, biodiversity conservation, soil health improvement, and climate resilience. Current research in agronomy increasingly emphasizes the need to balance food security goals with sustainability by developing management strategies that strengthen ecosystem functions such as nutrient cycling, pollination, water regulation, pest suppression, and the broadly understood well-being of organisms forming agrosystems. This Special Issue welcomes contributions that explore innovative agroecological practices, including crop diversification, conservation agriculture, integrated nutrient and pest management, and the use of digital and remote-sensing technologies for agroecosystem monitoring. Interdisciplinary studies bridging agronomy, horticulture, biology, and ecology are also encouraged, particularly those addressing the challenges of sustainable intensification under climate change.

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