

Special Issue

Farm Carbon Footprint Measurement for Sustainable Agrifood Systems

Message from the Guest Editors

This Special Issue addresses methodological advances and practical applications in quantifying carbon footprints across diverse agricultural systems. We seek research encompassing measurement protocols, emission factor development, spatial and temporal variability in farm emissions, carbon sequestration, and verification mechanisms. The scope includes crop and livestock production systems, organic versus conventional farming comparisons, and integrated approaches linking carbon accounting with farm management decisions and policy frameworks. We prioritize research employing innovative measurement techniques—remote sensing, process-based modeling, machine learning algorithms for emission prediction, and blockchain-enabled traceability systems. Studies integrating uncertainty analysis, addressing data gaps in developing regions, and validating emerging technologies against conventional measurement approaches are particularly valued.

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Message from the Editor-in-Chief

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