

Special Issue

The Future of Farming: Exploring Vertical Farming and Urban Agricultural Biosystems

Message from the Guest Editor

The increase in the world's population over the past few decades has caused significant changes in traditional agricultural systems. Vertical farming and urban agriculture are both innovative and sustainable solutions to the challenges posed by traditional agriculture, such as land and water scarcity, environmental pollution, and food security in urban areas. This Special Issue will primarily address the significance of various indoor vertical farming practices (i.e., IoT sensors, drones, robotics, and machine learning technologies, as well as big data analytics) in controlled conditions with comparative analysis of efficiency, productivity, advantages, and potential benefits. It will also highlight the need for sustainable agricultural practices that can meet the growing demand for food while minimizing negative environmental impacts. Research and innovation in vertical farming and urban agriculture is crucial for achieving global food security and promoting sustainable urban development.

Guest Editor

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Deadline for manuscript submissions

closed (15 June 2025)



Agronomy

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Impact Factor 3.4
CiteScore 6.7



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