

Special Issue

Enhancing Crop Yield and Quality: Insights from Precision Agriculture and Agronomic Practices

Message from the Guest Editor

Climate change poses major challenges for agriculture, with extreme temperatures and irregular rainfall patterns affecting crop productivity. To address this, scientists are developing new crop varieties and agrotechnologies that perform well under environmental stress while minimizing ecological impact. Precision agriculture plays a crucial role in enhancing yields and quality. Through data, automation, and technologies like drones, sensors, and satellites, farmers can optimize seeding, fertilization, irrigation, and pest control—applying resources at the right time and place for maximum efficiency. Sustainable practices are essential for long-term productivity. Techniques such as crop rotation, intercropping, legume cultivation, and catch crops protect the environment, preserve biodiversity, and improve soil health. These approaches support both higher yields and soil quality for future generations.

Guest Editor

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