



Development of Crop Protection Mechanical Engineering Technology, Evaluation of Efficacy and Safety of Pesticide Spraying

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Message from the Guest Editors

Mechanized pesticide spraying is the most effective means of preventing and controlling crop diseases and insect pests. Precision pesticide application technologies, such as air-assisted spraying, electrostatic spraying, target spraying, and variable spraying and high-efficiency crop protection machineries, such as crop protection unmanned aircraft system (CPUAS), boom sprayers, and large high ground clearance boom sprayers, are the main methods and development trends for improving the utilization rate of pesticides.

This Special Issue, therefore aims to publish high-quality articles that are related to mechanized crop protection, pesticide spraying, and the chemical control of pests and diseases. Research papers and review articles focusing on recent advances as well as papers presenting perspectives on pest and disease management, efficient pesticide spraying, spraying theory, pesticide spraying systems and components (nozzle, mixing apparatus, electrostatic spraying systems, target spraying systems, variable spraying systems, etc.), mechanized pesticide spraying application, and the evaluation of the efficacy and safety of pesticide spraying are welcome.





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