

## Special Issue

# Spraying and Pollination Systems in Precision Agriculture

### Message from the Guest Editor

Spraying and pollination are important to guarantee crop yield and quality. More than 85% of main crops rely on spraying and insect pollination, which increase their yields by more than 10%. At present, spraying and insect pollination are facing separately serious problems such as pesticide waste, environmental pollution, food safety, and the sharp decline in the number of pollinating insects. Multi-technology integration, such as air-assisted spraying, pesticide adjuvant, electrostatic spraying, target spraying, and variable spraying, is the current developmental trend. Swarm pollination and mechanized pollination, with the support of intelligent technology, are becoming effective means to alleviate the crisis of pollinating insects. These also provide a good foundation for demanding precision agriculture. This Special Issue, entitled *Spraying and Pollination in Precision Agriculture*, welcomes new research, comments, and opinion articles covering all relevant topics, including pest and disease detection, efficient pesticide spray, intelligent swarm management, efficient pollen application and other schemes, modeling, applied research, and policy positions.

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### Guest Editor

Prof. Dr. Jizhan Liu

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### Deadline for manuscript submissions

closed (25 May 2022)



## Agronomy

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### Editor-in-Chief

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