# Special Issue

# Single Leaf Area Models and Leaf Area Index in Agriculture and Its Related Ecosystems

### Message from the Guest Editor

Crop production is determined by whole-plant leaf area, while an ecosystem's total leaf area determines its carbon exchange rate. Determination of leaf area is, therefore, one of the most important topics in agronomy, plant ecology, and remote sensing. This Special Issue focuses on developing and assessing methods for determining and modeling the leaf area at any scale, including single-leaf area, whole-plant leaf area, stand leaf area, and leaf area index (LAI). It will include field and laboratory measurements, mathematical modeling, image analysis, phenotyping, 3D characterizations, and remote sensing of leaf area or LAI. Research articles will cover various plant species related to farmlands and their surrounding ecosystems (e.g., agroforestry, satoyama, etc.). Target plant species include crops, weeds, ornamental and medicinal plants, fruit trees, plants for natural materials (e.g., Gossypium, Salix), and bamboo. Original research articles, reviews, and opinion pieces, are welcome. We also welcome technical reports such as articles, communications (i.e., short communications), technical notes, or brief reports (depending on the length and type of the manuscript).

#### **Guest Editor**

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### Deadline for manuscript submissions

closed (25 September 2025)



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### Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

#### Editor-in-Chief

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