

Special Issue

Plant Volatile Organic Compounds: Revealing the Hidden Interactions

Message from the Guest Editors

Plants volatiles are synthesized in every part of the plant, including the roots, seeds, stems, leaves, and fruits, but the flowers give off the highest amount as well as the widest variety of Volatile organic compounds (VOCs).

VOCs and color compounds are among the most well-known plant-specialized metabolites. VOCs are required for interacting with other organisms in mutualistic (e.g., attracting beneficial insects such as pollinators) or hostile interactions both below and above ground (e.g., warning against pathogens and herbivores). This Special Issue aims to attract up-to-date contributions on all aspects of VOC chemistry (from challenges in their isolation and analysis to their synthesis) and on unlocking their biological activities or other useful properties.

- volatile organic compounds
- biosynthesis and emission
- VOCs in plant-plant and plant-environment interaction
- VOCs in insect/microbe/pathogen/signaling mechanism
- novel approaches in volatile isolation/analysis/synthesis
- fruits/food and beverages
- essential oils
- biological activities
- application of omics technologies

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2024)



Plants

an Open Access Journal
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Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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