

Special Issue

Effects of Smoke on Plant Biology and Ecology

Message from the Guest Editor

Since the late 1980's, smoke-derived compounds have been a hot topic in plant and crop physiology. Smoke-derived compounds can affect crops, trees, and natural plant communities differently. The impact of smoke compounds, mostly butenolides, on plants is closely linked to some phytohormones. A specific cellular response leads to the expression of specific genes, leading to a particular developmental feature (or a set of features). However, the plant response varies within the species and is influenced by plant growth pattern and developmental stage, butenolide concentrations, soil composition and microbiota, and other environmental factors. Considering all these circumstances, we invite you to share your high-quality relevant scientific results and opinions on the effects of smoke on plant biology and ecology, in terms of both pure research and practice. We hope that our Special Issue will bring both new valuable original data and up-to-date viewpoints on the subject.

Guest Editor

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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, and 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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