Special Issue

Metabolomic and Morphological Adaptations of Terrestrial Ecosystems under Global Change

Message from the Guest Editors

Rapid global changes, occurring naturally or due to human interventions, include climate change (warming, drought, or floods depending on the region), forest fires, air pollution, land-use change, eutrophication, and their feedbacks. To face those changes, plant species modulate their physiological functioning, eventually resulting in changes in their metabolome (production and composition) and morphology (growth, anatomy, and functional traits). These morphochemical modifications (in living plants and litter) are very diverse and include, non-exhaustively, aerial and belowground plant growth, litter production, leaf density, tissue, trichome and stomata development and distribution, and production of both primary (e.g., lignin, primary antioxidants) and specialized metabolites (e.g., phenolic compounds, terpenes). This interdisciplinary Special Issue welcomes the submission of articles that tackle changes in physiological, metabolomic, and morphological traits of vegetation (living plants, litter) in response to global change-related factors, in both natural and crop ecosystems.

Guest Editors

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Deadline for manuscript submissions

closed (4 April 2023)

Plants

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Impact Factor 4.0
CiteScore 6.5
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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