

Special Issue

Research on the Interactions Between Plants and the Environment: Mechanisms, Adaptations, and Sustainable Perspective

Message from the Guest Editors

This Special Issue invites contributions that move beyond isolated case studies toward integrative, decision-relevant science. Submissions may focus on natural or managed systems and are encouraged to combine experimental evidence with advanced analytical approaches such as multi-omics, remote sensing, process-based or data-driven modelling, and synthesis or meta-analysis. **Topics of interest include, but are not limited to, the following:**

- Plant responses to heat, drought, salinity, and compound stresses under current and projected climate scenarios;
- Air and water pollutant exposure, soil contamination, and hazardous chemicals: plant uptake, translocation, detoxification, and remediation;
- Biostimulants and other nature-based inputs: mechanisms, efficacy, and context dependency;
- Plant–microbe and plant–soil feedbacks influencing stress tolerance;
- Cross-scale indicators and modelling of resilience, yield stability, resource-use efficiency, carbon and water cycles, and ecosystem services;
- Frameworks translating mechanistic insights into actionable strategies for adaptation, mitigation, and landscape restoration.

Guest Editors

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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