

Special Issue

Protected Cultivation of Horticultural Crops: Advances and Sustainability

Message from the Guest Editors

Protected cultivation, also known as controlled environment agriculture or greenhouse cultivation, is a modern agricultural practice used to grow horticultural crops under controlled environmental conditions. This method provides several advantages, including protection from adverse weather, pests, and diseases, as well as the ability to optimize growing conditions for maximum crop yield and quality. It typically utilizes greenhouse structures that allow growers to control various environmental factors such as temperature, humidity, light intensity, and CO₂ levels, maintaining ideal conditions for plant growth. This cultivation method is suitable for various horticultural crops, including vegetables, fruits, flowers, and ornamental plants, enabling year-round production, disease and pest management, extended growing seasons, improved crop quality, and prolonged post-harvest freshness. At present, protected cultivation of horticultural crops has evolved significantly with a strong emphasis on sustainability. This Special Issue will welcome all research related to protective cultivation.

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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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