Special Issue

Frontier Studies in Agricultural Greenhouse Equipment and Systems

Message from the Guest Editors

Greenhouse and screenhouse systems are important consumers of material, chemical matters, and energy resources. New methods determining the physical environment of plants and other biotic agents in protected cultivations have been developed, requiring the use of multi-physical models, coupled with plant interactions. These models, coupled with numerical tools, allow forecasting the climatic, physiological, and ecological parameters inside the shelters for all types of external solicitations. Parallelly, important technological advances have been carried out since the last decades regarding the building materials. In this Special Issue, we propose to report and highlight information about the use of new hardware or software technologies, new models and materials, and their combination in greenhouse and screenhouse systems. Expected papers shall deal with original experimental cases combined with the modelling of the involved physical and/or biological phenomena. The state of art concerning specific technologies also matches the scope of this issue.

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Deadline for manuscript submissions

closed (31 December 2022)



an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



mdpi.com/si/105012

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