Special Issue

Environmental Control for Greenhouse Crops

Message from the Guest Editor

Greenhouse crops are one of the main development kingpins of primary production. Glasshouses or plastic greenhouses have long been used worldwide to promote the growth of plants for the production of fruits, vegetables, and flowers, especially during cold periods of the year. Climatic factors such as solar radiation, temperature, humidity, CO2 concentration, and wind speed interact with the greenhouse structure and the crop to produce the greenhouse climate. Understanding these interactions is very important, such that they can be modified to provide as near to optimum conditions as possible for crop growth. For this Special Issue, potential topics to be covered include, but are not limited to, the following: environmental analysis, energy conservation, heating and cooling systems, supplementary and photoperiodic lighting, use of renewable energy sources to control the environment (heating and cooling), CO2 enrichment ventilation (natural, fan ventilation), computational fluid dynamics and covering materials. For further reading, please visit the Special Issue website.

Guest Editor

Prof. Dr. Chrysoula Nikita-Martzopoulou

School of Agriculture, Faculty of Agriculture, Forestry and Natural Environment, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

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AgriEngineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriengineering@mdpi.com

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Dr. Mathew G. Pelletier
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