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Hydroponics and Controlled Environment Agriculture

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Controlled Environment Agriculture (CEA) optimizes indoor growing environments for crop production year-round. In controlled environments, agricultural production, plant growth practices, techniques, technologies, and methodologies should be addressed to the achievement of stated objectives by modifying and improving the relationship between plant growth, the components, and factors involved in the productive process. Greenhouse and hydroponics systems play a vital role in controlled environment agriculture because they can provide high-quality product all year round with an efficient use of resources, such as water, fertilisers, pesticides, and hand labour. This Special Issue aims to discuss various sustainability issues related to controlled environment agriculture, including but not limited to: Hydroponics systems, Substrates, Plant growth in closed cultivation systems, optimizing of water use, climate distribution, Hydroponics in vertical farming systems, Sustainability issues.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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