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Impact of Soil Moisture and Fertilizer Use on Crops

Guest Editors:

Dr. Jiyang Zhang

Institute of Farmland Irrigation, Chinese Academy of Agricultural Sciences No. 380 Hongli Road, Xinxiang 453002, China

Prof. Dr. Yang Gao

Institute of Farmland Irrigation, Chinese Academy of Agricultural Sciences, Xinxiang 453003, China

Dr. Zhuanyun Si

Institute of Farmland Irrigation, Chinese Academy of Agricultural Sciences No. 380 Hongli Road, Xinxiang 453002, China

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Message from the Guest Editors

Recent studies have revealed that the regulation of soil water and fertilizers affect crop growth, development, yield and composition, and have developed models for simulating crop response to soil water and fertilizers at different growing stages. Also, the mechanisms behind and the simulation of crop physiological responses to different soil water and fertilizer challenge our current understanding. This Special Issue aims to illuminate the complexity of soil water and fertilizer in relation to crop phenotype and physiological and biochemical processes under different scenarios.

This SI welcomes original research articles and reviews. Research areas may include (but are not limited to) the following:

- Irrigation water and fertilizer optimization methods and technologies;
- Crop-water relations, crop yields, and water productivity;
- Crop physiological response to soil moisture and fertilizer application;
- Fertilizer absorption and utilization efficiency;
- Environmental impacts of irrigation and fertilizer management;
- Soil water and fertilizer interact with roots:
- Response of soil moisture to precipitation;
- Rainwater harvesting and crop water management in rainfed areas.









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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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