



Impacts of Fertilization and Irrigation on Soil Nitrogen Cycling and Crop Nitrogen Utilization

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Message from the Guest Editors

Dear Colleagues,

Water and nitrogen are two essential substances that play an indispensable role in promoting normal crop growth. In recent years, scientists across the globe have conducted extensive research on the mechanism and application technology of crop water and fertilizer regulation.

However, due to the numerous impacts of environmental changes, global water shortage have only further intensified, and the ecological and environmental problems caused by unreasonable fertilization have become increasingly severe. These issues pose a serious threat to food security and sustainable development of agriculture. Thus, it is of dire necessity to address the challenges associated with agricultural water and soil resource bottlenecks, and further improve crop water and nitrogen utilization efficiency to ensure food security.

Given this context, this Special Issue aims to collate research addressing the impacts of fertilization and irrigation on soil nitrogen cycling and crop nitrogen utilization, as well as highlighting the novel developments in the fields of irrigation and fertilization.





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Message from the Editor-in-Chief

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