

Special Issue

Water-Saving in Agriculture: From Soil to Plant

Message from the Guest Editors

The shortage of water resources is a hot issue of interest in the world today. Previous research on water-saving agriculture has mainly focused on the increase and storage of soil water in the crop root layer and the reduction of evaporation and consumption in the tillage and cultivation of farmland, irrigation engineering, and agronomic water-saving technology. However, with the development of research on the soil–crop water relationship, more and more research has been concentrated on the exploitation of plant physiological water-saving potential, the improvement of water and nitrogen use efficiency under fertigation technology, and the change in soil greenhouse gas emissions after changes in soil water supply. This Special Issue focuses on how soil water regulation and leaves sprayed with exogenous substances affect transpiration, photosynthesis, plant growth, and water use efficiency and how irrigation schedules and methods, irrigation water quality, and drop fertigation technology affect farmland water and nitrogen use efficiency and soil greenhouse gas emissions.

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