

## Special Issue

# Agronomic Management of Crops in Arid and Semi-arid Environments

### Message from the Guest Editors

Global arid and semi-arid regions account for about 36% of the total land area. Although these regions are rich in soil, light, and heat resources, agricultural production is limited by drought, soil erosion, etc. Traditional agronomic management practices lead to soil degradation, nutrient loss, and water pollution, severely affecting agroecosystems in arid and semi-arid regions. The imbalance between agricultural production and the environment has seriously hindered the sustainable development of agriculture. In recent years, in order to promote crop production and improve the farmland environment, a variety of agronomic management methods such as plastic film mulching, fertilizer management optimization, straw returning, intercropping, water-saving irrigation, and conservation tillage have been proposed. We therefore welcome high-quality interdisciplinary research on crop agronomic management to uncover the mechanisms by which these management practices affect crop production and the environment, explore synergies of production and ecological functions in arid and semi-arid regions, and address production in arid and semi-arid regions conflict with the environment.

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### Deadline for manuscript submissions

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