

Special Issue

Simulation and Regulation Technology of Water and Salt Migration in Saline-alkali Dryland

Message from the Guest Editors

Water shortage and soil salinization are important environmental problems all around the world, especially in the arid and semi-arid region, which has restricted the sustainable development of agriculture. To improve agricultural water efficiency, reduce soil secondary salinization and realize the sustainable development of agricultural production in arid and semi-arid areas, it is important to explore the law of water and salt migration in saline-alkali dryland, adopt reasonable irrigation and drainage technology, cultivation mode, and irrigation system, and regulate the process of water and salt in farmland scientifically. As dramatic changes in global climate and critical contradictions in regional water resource shortage, problems including the soil salinization in arid areas, the efficient utilization of resources and sustainable development of the agricultural environment have become the important content and hotspot under the framework of global change research. Therefore, this edition aims to describe this Special Issue in your journal to reflect the research progress in the theory, technology, and methods of water efficiency assessment in saline-alkali land.

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