



## Efficient Utilization of Farmland Resources in Arid and Semi-arid Regions

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### Message from the Guest Editors

The world's agricultural land area is ca. 5 billion hectares, accounting for 38% of the world's land area. Nearly 80 % of this arable land is located in arid and semi-arid regions, which contribute 60% to world food production. In the context of climate change and increased natural disasters, agriculture in these regions is facing major challenges such as the depletion of natural resources, water scarcity, frequent droughts and agroecosystem degradation.

Therefore, improving the efficient utilization of farmland resources in arid and semi-arid regions has become an urgent priority to ensure the world's food supply and security. Additionally, plans and strategies for sustainable agricultural management practices (such as straw mulching, no tillage, intercropping rotation, the efficient utilization of water and fertilizer, the application of green manure and organic fertilizers, etc.) need to be vigorously promoted.





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## Message from the Editor-in-Chief

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