

Special Issue

Water Resource Management and Policy in Agriculture: Challenges and Opportunities

Message from the Guest Editor

Global agricultural water consumption accounts for approximately 70% of total freshwater withdrawal. Climate change has intensified the uneven temporal and spatial distribution of water resources, posing significant challenges to achieving key United Nations Sustainable Development Goals, particularly SDG 2, SDG 6, and SDG 13. While international cooperation has advanced water conservation initiatives in recent years, persistent regional disparities continue to hinder progress. This Special Issue seeks to align with the SDG framework by exploring pathways toward sustainable global agricultural water management, with a focus on cross-border policy coordination, technological innovation, and ecological adaptation strategies. We invite submissions in the following areas: (1) the coupling mechanism between regional agricultural water policies and SDG targets; (2) empirical studies on water-saving technologies and their contributions to achieving SDG2 and SDG6; (3) cross-border collaborative management frameworks for shared water resources; and (4) assessments of agricultural water management's role in advancing SDG13.

Guest Editor

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Message from the Editor-in-Chief

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