

Special Issue

Sustainable Management of Agriculture with a Focus on Water and Soil

Message from the Guest Editor

It is estimated that by 2050, agriculture will need to produce 60 percent more food globally to meet the growing food demand. On the other hand, about one-third of the food produced is wasted throughout the supply chain, with enormous financial and environmental costs. The current agricultural production is unsustainable because of the increasing water scarcity, soil degradation, and negative impacts of climate change. Sustainability can be achieved by developing technical, policy, governance, and financial frameworks to support agricultural producers and resource managers in adopting innovations. Since irrigation and drainage practices directly impact the sustainability of crop production, soil and agricultural water management is crucial in modern agriculture. Increasing competition for water from different sectors has forced the agriculture sector to reduce its share of freshwater and look for alternate water resources to meet its demand. Sustainable agricultural practices must make full use of technology, research, and development to ensure efficient utilization of soil and water resources.

Guest Editor

Dr. Asad Sarwar Qureshi

International Center for Biosaline Agriculture (ICBA), Dubai P.O. Box 14660, United Arab Emirates

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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