

Special Issue

Advances and Challenges in the Sustainable Water Management

Message from the Guest Editors

The main factor affecting water resources is human activity, which leads to a change in the natural water cycle through land use and land cover modification and construction of dams and weirs. Overconsumption and pollution of surface and groundwater resources contribute to a reduction of available water resources. In addition, periodic droughts, floods, and the projected impact of climate change on water resources make access to water increasingly limited and uncertain. At present, new methods for water management are searched for, and the currently used methods are optimized in all economic sectors in order to make efficient use of available water resources. It is preferred to close water cycles or to recycle water using highly efficient waste treatment technologies. Sustainable water management, which is crucial for the protection of water resources and reasonable use of water, should take into account the requirements of ecosystems. This Special Issue invites researchers in environment protection, environmental engineering, civil engineering, spatial planning, geography, and other disciplines and cross-disciplinary fields.

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