Special Issue

Impacts of Climate Change on the Water–Energy–Food Nexus

Message from the Guest Editors

Climate change impacts on water resources are often seen as spatiotemporal changes in rainfall, leading to the unreliability of surface water resources and increasing energy usage to extract groundwater resources or produce renewable water. Additionally, water shortages due to recurring droughts can affect energy production, such as hydropower and biofuels. The insufficient supply of water and energy would affect food production and result in food and nutrition insecurity. This Special Issue collects original research and critical reviews about scientific and technical information on the recent advances in the WEF nexus. The primary areas of interest of this Special Issue include but are not limited to the (1) estimation of climate change impacts on the WEF nexus and related ecosystem processes; (2) development of climate change adaptation strategies by WEF nexus approaches; (3) synergies and trade-offs of the WEF nexus under the climate change impacts; (4) holistic assessment and modeling tools for WEF nexus management; and (5) identification of the optimized life-cycle of water, energy and food elements in the WEF nexus.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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