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Energy Water Food Nexus

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Message from the Guest Editors

Dear colleagues,

Global trends of population growth, rising living standards, and the rapidly increasing urbanized world create a huge demand for water, food, and energy. Additionally, climate change has significant impacts on water and food availability. In recent years, the "nexus" has emerged as a powerful concept to capture these interactions of resources and it is now a key feature of policymaking. This nexus will be also a new approach in supporting energy–water–food satisfaction, with smart water–energy grids. Water, energy, and food are essential for human well-being, poverty reduction, and sustainable development. Water can function as the main link, creating and integrating the other two.

Innovative integrated solutions in terms of technical, economic, and social impacts are desirable. Energy recovery, pumped storage hydropower solutions, hybrid energy systems, water–energy–food management, under secure and safety scenarios, as well in terms of best operation and management and control towards more sustainable and flexible integrated solutions are required.



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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