

Special Issue

Synergies and Trade-Offs in Water–Energy–Food–Ecosystem Nexus

Message from the Guest Editor

The water–energy–food–ecosystem security nexus is an approach to reduce tradeoffs, promote synergies, increase system efficiency, and find sustainable development solutions. Through the nexus and quantifying the interactions between sectors we can investigate the impacts of different driving forces on water, energy, food and ecosystem interactions, and can identify the trade-offs and synergies across the nexus under various decision-making strategies.

To move towards this goal, this Special Issue aims to publish high-quality studies from various related areas including, but not limited to, any of the following topics:

Water–energy–food–ecosystem nexus modelling; climate change and nexus; sustainable development and nexus; agriculture and water–energy–food security; qualitative approaches; global risks and food–water–energy–ecosystem security; methodologies for the assessment of interconnections between WEF nexus and ecosystem; application of AI and optimization in the nexus approach; governance and nexus; nexus-related uncertainties; links between nexus and socioeconomic issues, etc.

Guest Editor

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