

Special Issue

Energy and Water Integration System

Message from the Guest Editors

The main priorities of the research are as follows (but are not limited to):

- Proposing high efficiency and cost-effective water treatment methods;
- Employing various renewable energies (in solo or hybrid form) with high energy conversion efficiency and low operating and investment cost instead of conventional fossil fuels;
- Investigating practical solutions for desalinating seawater for the main chain of the processing units;
- Applications of total site utility concepts for polygeneration of water and energy;
- Applying constructal theory concepts to build more resilient and high efficiency EWI systems;
- Proposing policies to further remove the existing obstacles for EWI and institutional arrangements for water–energy nexus decision-making;
- Recommending novel and practical solutions for environmental monitoring techniques;
- Using new or modified optimization techniques for highly constrained EWI systems based on mixed-integer linear programming (MILP) techniques;
- Regulations and standards needed for water–energy management;
- Planning of water–energy management strategies.

Guest Editors

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Message from the Editor-in-Chief

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