

Special Issue

Advances in Water-Based Solar Systems

Message from the Guest Editor

Solar energy plays a crucial role in addressing challenges within the water–energy nexus by offering sustainable solutions that promote efficiency, resilience, and environmental conservation. Solar energy technologies, such as solar water heaters and solar-powered irrigation systems, promote water conservation and efficiency by reducing the energy intensity of water-related processes. Floating solar photovoltaic (FPV) systems deployed on water bodies, such as reservoirs, lakes, and wastewater treatment ponds, offer the dual benefits of solar energy generation and water conservation. This Special Issue on “Advances in Water-Based Solar Systems” aims to encompass the latest developments in utilizing water for solar energy production and the application of solar energy for water supply and treatment. Both numerical and experimental original research works, addressing different aspects of water-based solar systems, are encouraged for submission to this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (10 August 2025)



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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