Special Issue

Atmospheric Water Harvesting

Message from the Guest Editor

This Special Issue focuses on recent progress in atmospheric water harvesting technologies, including both passive and active systems. Key approaches include fog and dew harvesting, adsorption- and desiccant-based systems, vapor compression refrigeration cycles, thermoelectric cooling technologies, membrane-based systems, and other innovative AWH technologies. In addition, emerging materials such as metal–organic frameworks (MOFs), hydrogels, hygroscopic salts, and nanostructured sorbents have demonstrated significant potential for improving water capture performance, especially under low relative humidity conditions.The Special Issue aims to provide a comprehensive platform for researchers to present advances in materials design, system integration, thermodynamic modeling, and renewable-energy-driven AWH systems. Contributions addressing device optimization, energy efficiency, climate adaptability, and real-world applications are particularly encouraged. By bringing together interdisciplinary research in materials science, environmental engineering, and energy systems.....

Guest Editor

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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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