

## Special Issue

# Water and Energy Consumption in Urban Water Cycles

### Message from the Guest Editor

Over the decades, water resources are being intensively overexplored and polluted. The development and increasing demands of the population have also led to an increase in energy consumption. Energy use in the water sector is growing, and this fact represents adverse impacts on the environment in terms of resource scarcity and climate change, affecting the sustainable development of modern societies. In fact, all urban water systems require energy, and it is very important to understand how these two vital resources are related to each other at each stage of the urban water cycle—abstraction, water treatment, end use, and wastewater treatment—in order to improve the efficiency of use and to help define the best management strategies for this cycle. We particularly invite contributions concerning various aspects of the energy to water nexus in the urban water cycle, namely, studies of its relations as well as system optimization and best management strategies.

---

### Guest Editor

Dr. Cristina Matos

ECT—School of Science and Technology, University of Trás-os-Montes e Alto Douro UTAD, Quinta de Prados, 5000-801 Vila Real, Portugal

---

### Deadline for manuscript submissions

closed (20 November 2020)



## Environments

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.7  
CiteScore 5.7



[mdpi.com/si/33371](https://mdpi.com/si/33371)

*Environments*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[environments@mdpi.com](mailto:environments@mdpi.com)

[mdpi.com/journal/  
environments](https://mdpi.com/journal/environments)





# Environments

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.7  
CiteScore 5.7



[mdpi.com/journal/  
environments](https://mdpi.com/journal/environments)



## About the Journal

### Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

---

### Editor-in-Chief

Prof. Dr. Sergio Ulgiati

1. Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy

2. School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xijiekouwai Street, Beijing 100875, China

---

### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg, AGRIS, GeoRef, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).