

## Special Issue

# Bridging Hydrology with Ecology and Environmental River Sustainability: The Role of Environmental Flows

### Message from the Guest Editor

Historically, the topic of environmental flow has been strongly linked with approaches describing the quantity, timing, and quality of river flows required to sustain freshwater and estuarine ecosystems. Environmental flow is a vital tool for managing water in the water–energy–food nexus. From a scientific viewpoint, we can see this task as an initiative to balance water consumption and human-made pressure on water resources with environmental sustainability. Over the last 50 years, numerous models of different complexity have been developed to produce a proper and altered river flow under different components. These methods include simplified hydrological methods, advanced hydrological methods, habitat methods, and holistic methods. For this Special Issue of Sustainability, we seek papers describing interactions between river hydrology, river hydromorphology, habitat, and biological response as a foundation for establishing integrated environmental flow models. Basic science papers as well as applied novel scientific and administrative approach descriptions are welcome.

---

### Guest Editor

Dr. Aristoteles Tegos

1. Laboratory of Hydrology and Water Resources Development, School of Civil Engineering, National Technical University of Athens, GR-15780 Athens, Greece
2. TOBIN, Block 10–4, Blanchardstown Corporate Park, D15 X98N Dublin, Ireland

---

### Deadline for manuscript submissions

closed (31 October 2022)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/85453](https://mdpi.com/si/85453)

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

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



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



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, Canada

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)