



water



an Open Access Journal by MDPI

Hydropower and Pumping Systems

Guest Editors:

Prof. Dr. Helena M. Ramos

Department of Civil Engineering,
University of Lisbon, IST – Técnico
Lisboa /CERIS, Av. Rovisco Pais,
1049-001, Lisbon, Portugal

helena.ramos@civil.ist.utl.pt

Prof. Dr. Armando Carravetta

Department of Civil, Architectural
and Environmental Engineering,
University of Naples Federico II,
via Claudio, 21, Napoli 80125,
Italy

arcarrav@unina.it

Prof. Dr. Aonghus McNabola

Department of Civil, Structural &
Environmental Engineering,
Trinity College Dublin, Dublin,
Ireland

amcnabol@tcd.ie

Message from the Guest Editors

Dear Colleagues,

A hydropower solution relies on water flowing through a turbine to create electricity to be used by customers. In order to store energy for use at a later time, there are a number of different projects that use pumps to elevate water into a retained reservoir behind a dam, in tanks of the water sector or in natural topographic depressions—creating an on-demand energy source that can be released rapidly.

This Special Issue aims to provide a scientific forum for new investigations and engineering opportunities and applications, where scientists, researchers, and experts can submit their novel developments, new design solutions, innovative approaches in several fields of hydraulics, and techniques, methods, and analyses in order to respond to the new challenges in hydropower and pumping systems as a base of hydraulic and hydrodynamics engineering applications from micro to large scales.

Deadline for manuscript
submissions:

31 December 2021



mdpi.com/si/59750

Special Issue

an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

ECOLAB, Centre National de la
Recherche Scientifique (CNRS),
University of Toulouse, campus
ENSAT, Auzeville Tolosane,
France

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.

Author Benefits

Open Access:— free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Ei Compendex](#), [GEOBASE](#), [GeoRef](#), [AGRICOLA](#), [AGRIS](#), [CAPlus / SciFinder](#), [Inspec](#), and many other databases.

Journal Rank: [JCR](#) - Q2 (*Water Resources*) / [CiteScore](#) - Q1 (*Geography, Planning and Development*)

Contact Us

Water
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[@Water_MDPI](https://twitter.com/Water_MDPI)