



water



an Open Access Journal by MDPI

New Challenges in Water Systems

Guest Editors:

Prof. Dr. Helena M. Ramos

Department of Civil Engineering,
University of Lisbon, IST – Técnico
Lisboa /CERIS, Av. Rovisco Pais,
1649-004 Lisbon, Portugal

helena.ramos@
tecnico.ulisboa.pt

Prof. Armando Carravetta

Department of Civil, Architecture
and Environmental Engineering,
University Federico II of Naples,
Naples, 80125, Italy

armando.carravetta@unina.it

Prof. Dr. Aonghus McNabola

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

amcnabol@tcd.ie

Deadline for manuscript
submissions:

closed (31 October 2019)



mdpi.com/si/15054

Message from the Guest Editors

This new era requires new thinking and focused resolve, through the identification of the biggest challenges and concerns in the water sector, to support the development of new design solutions and analyses. The decision on future directions is to look closely at what are the key issues, such as system efficiency, smart water grids, advanced simulations and analyses, losses control and gain opportunities, innovative integrated solutions, water-energy management, which researchers and engineers must address today towards the future challenges, research directions and applications.

This Special Issue aims to provide an investigation and engineering opportunity, where scientists, researchers and experts can submit their novel developments, new design solutions, innovative approaches in several fields of hydraulics, techniques, methods and analyses in order to respond to the new challenges in the water sector.

Keywords

- water systems efficiency
- smart water grids
- water-energy nexus
- energy recovery
- safety and control
- hydraulic transients and CFD analyses
- new design solutions and eco-design
- water and energy losses
- pumped storage and water scarcity/supply

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)