Special Issue

The Nexus of Water–Food–Land–Energy: An Approach to Improve System Sustainability

Message from the Guest Editors

The nexus of water, food, land, and energy is an important topic. The rising demand for food and energy, e.g., larger electricity demand, or the use of some types of renewable energy sources, might require more freshwater, for example, for the cooling of power plants or the irrigation of energy crops. Additionally, hydropower might have a relatively large water footprint per unit of electricity when hydropower stations are located in areas with large amounts of water evaporation. This Special Issue is open to papers advancing the knowledge on water, food, land, and energy relationships or showing innovative applications. We welcome, for example, papers that analyze ways to improve efficient water use or decrease water pollution. Papers comparing water footprints of different types of energy are also most welcome. We also encourage papers on global energy scenarios and water, including the role of new energy sources or on trade-offs between water, land, and carbon footprints related to food and energy production.

Guest Editors

Dr. Winnie Gerbens-Leenes

Integrated Research on Energy, Environment and Society (IREES, Groningen, The Netherlands), University of Groningen, 9747 AG Groningen, The Netherlands

Dr. S.D. Vaca Jimenez

1.Department of Mechanical Engineering, Escuela Politécnica Nacional, Quito, Ecuador
2.Integrated Research on Energy, Environment and Society (IREES), University of Groningen, 9747 AG Groningen, The Netherlands

Deadline for manuscript submissions

closed (13 December 2023)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/171389

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/journal/water

About the Journal

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
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

MDPI