

Special Issue

Recent Progress in CO₂ Emission from the World's Rivers

Message from the Guest Editors

We are guest-editing a special issue of *Water* - ***Recent Progress in CO₂ Emission from the World's Rivers***. Manuscripts will be selected through both invitation and open call, and the publisher Water will waive the fee for all accepted papers in this Feature Paper special issue. Terrestrial carbon export from river systems to coastal and marine environments is a crucial component of the global carbon cycling. However, current global estimates of CO₂ flux from rivers to the atmosphere vary largely, i.e. nearly 9-folds from the lowest to the highest estimate, and the large discrepancy may have stemmed from a number of factors. This Feature Paper special issue aims at bringing together the latest research on CO₂ emission of the world's rivers from headwaters to lowland and estuarine rivers. We encourage submissions of high-quality studies concerning dissolved carbon transport and transformation in riverine systems across climatic, geological and land use gradients. We especially encourage papers that address CO₂ from the world's major rivers and that stimulate critical thinking pertinent to constraining uncertainties in global estimation of riverine CO₂ emission.

Guest Editors

Prof. Dr. Yijun Xu

School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA 70803, USA

Prof. Dr. Siyue Li

State Key Laboratory of Green and Efficient Development of Phosphorus Resources, School of Environmental Ecology and Bio-logical Engineering, Hubei Key Laboratory of Microbial Transformation and Regulation of Biogenic Elements in the Middle Reaches of the Yangtze River, Wuhan Institute of Technology, Wuhan 430205, China

Deadline for manuscript submissions

closed (31 December 2023)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/68925

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

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





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



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