

## Special Issue

# Carbon Sequestration and Greenhouse Gas Emission Reduction in Aquatic Systems

### Message from the Guest Editors

Aquatic systems, both natural (wetlands, lakes, rivers, estuaries, etc.) and artificial (rice fields, aquaculture ponds, wastewater treatment plants, etc.) are key elements of the earth's landscape in terms of climate regulation. They have the capacity to sequester a significant amount of carbon but can also be considerable contributors of greenhouse gases (GHGs), such as methane, depending on how they are managed and restored. Thus, it is of great importance to investigate and demonstrate aquatic systems' capacity to contribute to climate neutrality through applied research aimed at optimizing their carbon balance, biodiversity and other ecosystem services (water cycle regulation, water purification, food provisioning, etc.). This Special Issue welcomes papers considering the many dimensions of climate regulation related to aquatic systems, such as monitoring methods, carbon cycle modeling, ecosystem restoration, management of wetlands, rice fields and aquaculture ponds, large-scale GHG emission patterns, new techniques to reduce emissions and increase carbon sequestration, etc.

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### Guest Editors

Dr. Carles Ibáñez

Department of Climate Change at Eurecat, Technological Centre of Catalonia, Amposta, Catalonia, Spain

Dr. Nuno Caiola

Department of Climate Change at Eurecat, Technological Centre of Catalonia, Amposta, Catalonia, Spain

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### Deadline for manuscript submissions

closed (31 December 2023)



## Water

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*Water*

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

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### 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.

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### 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

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