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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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

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