Special Issue

Organic Carbon Cycle in Eutrophic Water Body

Message from the Guest Editors

Due to the impact of human activities and climate change, inland natural water bodies are facing the threat of eutrophication. These freshwater ecosystems are undergoing or have undergone a steady-state transition from macrophyte-dominant clear water state to algae-dominant turbid water state. Eutrophic water bodies receive not only a large amount of exogenous nutrients, such as nitrogen and phosphorus, but also exogenous organic matter. These internal and external organic matter converge and decompose in the water body, which may significantly promote the decomposition of refractory substances in the water body, release greenhouse gases, and even cause biofeedback on climate change. Therefore, this Special Issue mainly focuses on the source and composition of organic matter, including particulate organic matter and dissolved organic matter in eutrophic water bodies via various traceability technologies, the migration and transformation process of organic matter in water bodies, and the environmental effects caused by the decomposition of organic matter.

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Deadline for manuscript submissions

closed (12 April 2023)

International Journal of Environmental Research and Public Health

an Open Access Journal by MDPI

CiteScore 8.5
Indexed in PubMed

mdpi.com/si/132794

International Journal of Environmental Research and Public Health
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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

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