Special Issue

Dissolved Organic Matter Dynamics in Groundwater, Rivers, and Lakes

Message from the Guest Editors

Natural organic matter is an inherent constituent of the limnosphere. In its dissolved form, it connects large soil carbon stocks with the highly dynamic aqueous compartments of groundwater, streams, rivers, and lakes. In the aqueous phase, a plethora of microbial and chemical processes then alter the amount, composition, and reactivity of dissolved organic matter (DOM). This Special Issue seeks to address the dynamic nature of DOM, i.e., processes that lead to and change its molecular and structural compositions and determine its mobilization, turnover, and future significance for regional water quality and the global carbon cycle. We invite interdisciplinary contributions from researchers studying the dynamics of dissolved organic carbon/matter in groundwater, streams, rivers, and lakes around the globe. Contributions may deal with but are not limited to mechanistic field or laboratory studies, novel methods for the molecular characterization of DOM, quantitative and qualitative assessments of DOM sources, or data-driven and predictive modeling of DOM concentration, export, and turnover in catchments.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2021)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/52358

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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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