Special Issue

Advances in Trace Elements and Their Isotopes in Marine Chemistry and Hydrogeology

Message from the Guest Editors

Geochemical behaviors of trace elements and their isotopes (TEIs) in the hydrosphere have been increasingly used to further understand sources, sinks, and cycling of the TEIs in the ocean and aquatic environemnts. With the international effort of the GEOTRACES program, for example, the main controls on the distributions of TEIs in the ocean have been better constrained in the past few years, and have been successfully applied to study the biogeochemical processes in the ocean, and the interactions among the hydrosphere, biosphere and lithosphere. In this Special Issue, we welcome contributions that focus on any aspects of elemental mobility, isotopic variations, and analytical methods for investigating sources, sinks, and cyclings of the TEI in the ocean and freshwater environments. Papers on the anthropogenic influences on the TEIs in the hydrospere and applications in Paleoceanography and Paleoclimatology are also very welcome. The main objective of this Special Issue is to enhance the potential applications of using tracers of trace elements and their isotopes for studying oceanographic and hydrogelological studies.

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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
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