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Water Isotopes in the Investigation of the Connection between Atmosphere and Terrestrial Water Cycle

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Deadline for manuscript submissions:
closed (3 May 2024)

Message from the Guest Editors

As natural tracers, water-stable isotopes have been routinely used in hydrological studies and have significantly contributed to our understanding of climate and hydrological processes. This proposed Special Issue is dedicated to advancements in the field of stable isotope hydrology. In this Special Issue, we invite the submission of research articles that use water-stable isotopes ($\delta^{18}O$, $\delta^{2}H$, d-excess and ^{17}O-excess) to understand atmospheric processes and their interactions with the terrestrial component of the hydrological cycle, and address hydrological questions in freshwater ecosystems (rivers, streams, lakes, and wetlands) through their connectivity. This Special Issue also welcome articles on isotope-enabled climate models and hydroclimate proxies, such as ice-cores, speleothems, tree-rings and applications that aim at understanding the connectivity between the surface and the atmosphere using isotopic tracers. All submissions must contain original work not being considered for publication elsewhere and must follow the submission guidelines given on the journal's homepage.

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Editor-in-Chief

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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