Special Issue

Nutrient Cycling in River Corridors

Message from the Guest Editors

River corridors play a major role in watershed nutrient cycling by mixing waters of different composition and stimulating biogeochemical reactions. Hydrological exchange flows and the associated biogeochemical processes show significant spatiotemporal variability as river corridor systems are subject to dynamic forcing over a wide range of timescales. Understanding and predicting nutrient cycling in river corridors is crucial for sustainable management of water resources under a changing environment. We invite contributions that advance our process understanding and mechanistic representation of nutrient cycling in river corridors, including but not limited to (1) coupling between hydrologic processes and nutrient cycling, (2) role of microbial functions in nutrient cycling, (3) process-based and data-driven methods to improve predictions of nutrient cycling, (4) bridging scales from reaction mechanisms to emergent watershed- and basin-scale system responses, (5) methods to integration observations, experiments, and models to improve predictive models, and (6) impacts of environmental changes, including extreme events.

Guest Editors

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Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.
We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

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