# Special Issue

# Erosion and Sediment Source Tracing in River Catchment Systems

**Message from the Guest Editors**

Soil erosion is a worldwide problem causing the loss of soil fertility and a reduction in crop productivity. Tracers can reveal the integration of smaller-scale erosion and transport processes into different temporal sources of contribution within larger catchments. Recent advances in techniques for discriminating sediment sources provide valuable tools in this regard. Under this framework, there is a general apparent lack of validation data in assessing the accuracy of water erosion estimations by modelling. Therefore, models are needed to explore how intrinsically small-scale ecogeomorphological and human processes can influence the form of entire landscapes, and thus to determine whether these processes create a distinctive topography. This Special Issue is focused on providing a more detailed description of relevant processes of water and sediment transfer between systems as a fundamental step towards understanding the relative importance of linkage problems in erosion processes. Especially, contributions joining hydrological and sediment modeling through field-based, remote-sensing, and tracing studies are very welcome.


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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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