



## Watershed Hydrology under Comprehensive Changing Scenarios

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### Message from the Guest Editors

Water fluxes and storages from local to global scales are driven by complex hydrological processes occurring near the surface and subsurface, and their interactions with rapidly changing human and natural systems. However, most hydrologic models lack the capabilities to incorporate the dynamic interactions between the complex natural (soil, geomorphology, vegetation, atmosphere, etc.) and human (economics, crop management, irrigation, tradition, etc.) systems in predicting changing scenarios. This special issue is aimed to collate innovative approaches to modeling the impacts of natural and anthropogenic changes on the systemic responses of a hydrologic system. The modeling framework should include a seamless model integration to simulate or assess the hydrologic system, the environmental stressors (e.g., climate change, land use changes), and system responses under changing scenarios. Approaches that include impacts from several assessment endpoints (water, sediments, pesticides, soil health, biodiversity, production, etc.) are encouraged.





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## Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

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