



River Pollutant Dispersion and Sustainability

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Message from the Guest Editor

Rivers play a pivotal role in ecological and human health as well as in the economic development of territories, representing the main water supply for domestic use, irrigation, and industrial activities. Rapid population growth, the expansion of economic activities, and urban sprawl are leading to a greater demand for high-quality water, which often cannot be satisfied by locally available resources, while the discharge of insufficiently treated wastewater raises costs for downstream users. The situation is further exacerbated by the current climate change, which, exposing rivers to frequent and extreme variations of temperature and fluvial regime (droughts and floods), contributes to their degradation, to lowering the efficiency of natural purification processes, and to greater detrimental effects on aquatic life.

This Special Issue would like to cover various aspects ranging from monitoring to the numerical modelling of pollutant dispersion in rivers, and from water quality and contamination sources assessment to the achievement of the SDGs.





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