



Soil Erosion Investigation Using Innovative Monitoring and Advanced Modelling

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Deadline for manuscript
submissions:

closed (31 August 2021)

Message from the Guest Editor

Soil erosion is a severe environmental problem. Sediment derived from the soil represents an important threat to aquatic ecosystems by reducing light penetration and carrying pollutants such as pesticides and phosphorus, which physically damage freshwater. Physical understanding of soil erosion and sediment transport processes at various temporal and spatial scales and their controlling factors is crucial to better develop predictive tools. Further, obtaining quantitative information on soil redistribution patterns during storms events and their sediment sources are essential to develop effective management strategies and soil erosion mitigation measures at the catchment scale.

This Special Issue encourages contributions on the understanding of soil erosion processes and sediment transport management based on detailed field works, laboratory experiments, validated numerical models, and effectiveness assessment methods. Investigation on high-frequency monitoring, sediment tracing, and fingerprinting techniques in association with other methods (including soil erosion modeling and sediment budgeting) are welcome.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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