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Advances in Sediment Transport Research and Engineering in Arid and Semi-arid Regions

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Message from the Guest Editor

Dear Colleagues:

Over 50% of the world has an arid and/or semi-arid climate, receiving less than 500 mm of precipitation per year. And, the arid and semi-arid regions contains the homes of more than 50% of the world's populations. Human settlements demand water for households and industrial and agricultural services. Dams, reservoirs, canals, and ponds are essential infrastructures for water supply and delivery. Rainfalls are scarce in this region, but soil loss and land surface degradation are severe because these rainfall events have a high intensity in short duration.

To mitigate soil loss and land surface erosion, intensive research has been conducted in three areas:

- (1) to quantify sediment yield and sediment transport from overland and channel flow
- (2) to evaluate the impact of landuse and land cover (e.g., urban, agriculture, pasture) on soil erosion
- (3) to assess the benefits of erosion control measures (e.g., check dams, natural engineering) [...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/Arid_Semi-Arid



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Special Issue



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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