



Performance of Vegetated Biofilters for Road and Parking Lot Runoff Management

Guest Editor:

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Message from the Guest Editor

Runoff from trafficked areas (roads, highways, but also parking lots) is a considerable source of diffuse pollution that needs to be controlled. Systems which control pollution by filtering stormwater through a vegetated soil or filter media may be referred to as vegetated biofilters. In this Special Issue we will welcome contributions based on field monitoring of vegetated biofiltration systems and/or modeling work. Column or mesocosm studies may also be considered if experimental conditions are representative of road runoff.

- Methodological frameworks for in-situ performance evaluation;
- Evaluation of the hydrological and/or water quality performance (especially for less documented organic micropollutants) of systems;
- Fate of pollutants (degradation, leaching, etc.) on a medium- to long-term scale; analysis of physical, chemical or biological processes involved;
- Effects of system aging, maintenance practices, vegetation growth, seasonality or biological activity on the temporal variations of performance indicators;
- Effect of design parameters (filter media characteristics, plant type, system geometry, etc.) on the retention of various pollutants found in road runoff.





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