Special Issue

Tree- and Shrub-Based Phytoremediation: Pollution Control and Ecosystem Services

Message from the Guest Editors

Phytoremediation represents an efficient, cost-effective, solar-driven, in situ remediation strategy for contaminated environmental matrixes. In addition, the tree covers generated for phytoremediation can provide several additional ecosystem services. The aim of this Special Issue is to raise awareness about the relevance of the secondary benefits provided by phytoremediation, and we encourage researchers to submit studies addressing the analysis of these additional services. In the framework of the planning, implementation, and monitoring of phytoremediation interventions, potential topics include the following:

- Carbon sequestration in biomass and soil;
- Regulation of urban temperature;
- Improvement of chemical, physical, and biological properties of the soil;
- Regulation of urban hydrology;
- Increase in biodiversity at the species and ecosystem levels;
- Reduction of airborne particulate matter pollution;
- Production of biomass for bioenergy and conversion into added-value compounds and materials;
- Aesthetic improvement of the sites;
- Enhancement of community cohesion;
- Improvement of psychological and physical health.

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