Special Issue

Contaminant Elements in Roadside Dust and Soil

Message from the Guest Editor

The intended Special Issue should cover a data compilation of roadside dusts and urban soils. Air quality monitoring often refers to concentrations in m^3 of air, but atmospheric deposition data and concentrations in dust are not so often reported.

- Origin and sampling: Data can only be compared if the same sampling depth has been used.
- Physical properties and minerals: Sealing and compaction impose great changes to hydraulic properties and soil gas transport.
- Chemical properties: Metal pollution, particularly so-called “heavy metals”, semimetals (e.g., As, Sb), and platinum group metals, have been often the subject of health concerns.
- Input to roadside soils: Atmospheric deposition sources are traffic, combustion processes, and abrasion from buildings, together with long-range transport.
- Output from roadside soils: The run-off from sealed plots enters adjacent urban soils and may be hazardous to urban trees. Urban run-off can be easily detected in stream sediments nearby.
- Transformations: The levels of contamination usually decrease from roadside soils and industrial soils to parks, residential soil, and riverside areas, wetlands, and forests nearby.

Guest Editor

Dr. Manfred Sager

Bio Forschung Austria, 1220 Vienna, Austria

Deadline for manuscript submissions

closed (31 July 2020)

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Environments
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
environments@mdpi.com

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Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Sergio Ulgiati
1. Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy
2. State Key Joint Laboratory of Environment Simulation and Pollution Control, School of Environment, Beijing Normal University, No. 19 Xinjiekouwai Street, Beijing 100875, China

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