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Contaminant Elements in Roadside Dust and Soil

Guest Editor:

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Deadline for manuscript submissions:
closed (31 July 2020)

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.

1. Origin and sampling: Data can only be compared if the same sampling depth has been used.
2. Physical properties and minerals: Sealing and compaction impose great changes to hydraulic properties and soil gas transport.
3. 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.
4. Input to roadside soils: Atmospheric deposition sources are traffic, combustion processes, and abrasion from buildings, together with long-range transport.
5. 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.
6. Transformations: The levels of contamination usually decrease from roadside soils and industrial soils to parks, residential soil, and riverside areas, wetlands, and forests nearby.

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Editor-in-Chief

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Message from the Editor-in-Chief

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