

Review of: "Probabilistic Assessment of the Heavy Metal Pollution in Debrecen's Topsoil"

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Potential competing interests: No potential competing interests to declare.

This paper presents an important issue or research topic. The structure, organization, and flow of ideas were well narrated. However, I have a few points (particularly on the methodology) to be addressed to improve the quality of the manuscript.

1. Brief summary of the methodology and instrument (XRF) used should be included in the Abstract section.
2. Section for chemicals and apparatuses/instruments used in the study should be included.
3. Soil sampling (Section 2.2.) - Requires citation of references for soil sampling protocol.
4. Analytical procedures (Section 2.3.) - Lacks clarity! What is the mesh size of the sieve or the particle size of the powdered soil samples? Citation for the procedure followed was also necessary if a new protocol was not developed/optimized by the authors.
5. The paper also lacks a quality control/method validation section - Calibration curve, accuracy, sensitivity, etc.
6. Health risk implications of the findings of the study have to be included in the discussion section.