

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.

The manuscript "Probabilistic Assessment of the Heavy Metal Pollution in Debrecen's Topsoil," written by Fehér and Nagy, describes a simulation procedure for the spatial and statistical patterns of heavy metals in atmospheric deposited dust samples and the spatial diversity of health vulnerability. The scientific questions addressed in this manuscript are undoubtedly interesting, but there are also several noteworthy concerns. Firstly, the introduction and discussion sections of the study need to be strengthened. Secondly, the data need to be further mined. Specific comments can be found below.

Specific comments:

1. In the introduction, please describe in detail the deterministic approaches and probabilistic methods adopted in this study, and highlight their uniqueness and innovation.
2. Fig. 1 should be improved.
3. There was too little discussion to fully reflect the new findings in this study and the differences from other studies.
4. Many parameters have been monitored and calculated in this paper, but at present, only a simple descriptive statistical analysis of these parameters is carried out, and it is recommended to further discuss these parameters.
5. The format of the references in the authors' text and the list of references needs to be corrected.