Review of: "[Review Article] Excessive Aluminum in Soil"

Manhattan Lebrun[1]

1 Université Bourgogne Franche-Comté

Potential competing interests: No potential competing interests to declare.

Excessive Aluminium in Soil.

Unfortunately, I have to reject this review paper. The exact goals are not defined; sections are repetitive. And most importantly, it is very short; there is almost no information in each section, just a brief summary of what is already known, without development / discussion.

Title.

The title is not informative enough. What is the goal of the review paper?

Abstract.

The context is missing.

Effects of Aluminium Accumulation in Soil.

- The abstract states that sources of aluminium contamination will be discussed; why not start with that? This is the starting point of Al toxicity.
- The last paragraph concerns sources of Al contamination.

The figures 1 and 2 are not cited in the text.

Assessment Methods for Soil Aluminium Concentration.

- What is the purpose of this section? It is out of the scope of the paper.
- The first line of the first method is a general statement that works for almost all methods; it is not a method per se. The real method in this case is the simple extraction, which requires sampling of the soil.

Remediation Strategies for Aluminium-Contaminated Soils.

- The first method requires more references, notably regarding the amendments used.
- The definition of phytoremediation is wrong; pollutants could also be be immobilized at the root zone, without accumulation in the plant upper tissues (phytostabilization vs. phytoextraction). Again, the author does not cite references to confirm his saying.

Future Outlook: Preventing Aluminium Overload in Agricultural Lands.

- How is this section different from the one about remediation strategies? Both have the same goals and thus should be merged.

The author talked about nanotechnology in the abstract, but this has not been developed here.

Some references are old, and none of them are from after 2021.