

Review of: "A Review of the Risks of Copper Foil Manufacturing Plants. A New Facility in Catalonia, Spain"

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Potential competing interests: No potential competing interests to declare.

The authors have a well-written review; however, there are some concerns that need to be addressed before the acceptance of the manuscript.

The introduction briefly mentions environmental and health risks but does not delve deeply into specific concerns that might arise from the copper foil manufacturing process itself. A more detailed preview of potential risks could set the stage more comprehensively for the discussions to follow.

The introduction lacks any mention of existing scientific studies or data regarding the environmental and health impacts of similar manufacturing plants elsewhere, which could have been a strong point to either alleviate or substantiate the local population's concerns.

The review on copper and electrofoil manufacturing plants could be enriched by discussing technological advancements and operational innovations that could potentially reduce the environmental and health risks of copper foil manufacturing.

While the review on copper and electrofoil manufacturing plants touches on social concerns, it doesn't explore the economic impacts on the local community extensively, such as job creation, economic growth, or adverse economic risks.

Although the paper suggests the need for strict controls and regulations on copper, the environment, and health, it provides limited detail on specific, actionable mitigation strategies that could be employed to minimise risks.

While the chapter on Copper Production: Risks for Human Health references numerous studies, it often lacks depth in the analysis of these studies. It summarizes findings without critically evaluating the methodologies or the findings of the conclusions.

The chapter also briefly mentions the environmental impacts of LIBs but does not give a detailed account of newer technologies or emerging issues within the copper production industry.

The chapter on copper toxicity in humans could benefit from including specific case studies or quantitative data on copper exposure and its effects. This would help illustrate the points made with real-world examples and statistics.

The discussion on the role of copper in Alzheimer's disease is marked by ambiguity. While the text mentions potential links, it does not provide a clear consensus or detailed explanation of the current scientific understanding.



While the conclusion emphasizes the absence of studies on the risks of copper foil manufacturing plants, it does not clearly define the gap that exists or how it might be filled. Addressing potential reasons for this lack of research could provide a more balanced perspective.