

Review of: "Yerba Mate as a Co-Precursor in the Synthesis of Silica Through the Sol-Gel Technique"

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Potential competing interests: No potential competing interests to declare.

The author begins by discussing the circular economy and waste reutilization, which are of utmost importance in the current global context. However, her experimental work is based on the use of yerba mate extract, which is the part consumed by people. I believe her focus would be better directed if she used the waste from consumption—washed leaves, branches, and stems—for particle production. Regarding the experimental part itself, there are missing details, and using only FT-IR for characterization without showing the shape and properties of the generated particles leaves the work incomplete.

In my opinion, the work is not suitable for publication as it is written. I recommend the author provide a more thorough explanation of the process and incorporate measurements that better indicate the physicochemical characteristics of the obtained particles.