Comments and Suggestions for Authors

The revised manuscript has addressed the previous comments and has been substantially improved. Therefore, I recommend acceptance with minor revisions.

- L147, Fig 1 should be Fig 2.
- L494, the resolution should be higher. If it's cited from elsewhere, indicate properly.
- L509, texts should be larger.
- L730, spell out w.r.t.
- L851, ICP-OES Atomic Absorption Spectroscopy (AAS) is wrong. Emission or absorption? Note that the E in OES stands for emission.
- L854, regarding "moderate sensitivity", compared to what? Be cautious with the tone. Each analytical technique has its own inherent advantages and limitations, making them suitable for different applications. Avoid asserting that one technique is superior to another unless supported by strong evidence.
- L876 – 879, cite the relevant articles that used XRD to identify the listed crystalline minerals. Additionally, I recommend reference studies on paracrystalline minerals (e.g., Wang et al., https://doi.org/10.1016/j.colsurfa.2022.130444) and amorphous minerals (e.g., Ali et al., https://doi.org/10.3390/min12020205). The authors may consider adjusting the tone as follows: "While XRD has also been used to analyze paracrystalline minerals, such as imogolite, an aluminosilicate [e.g., Wang et al.] and amorphous phases, such as amorphous silica [e.g., Ali et al.], Fe-Mn oxides [XXX et al.], and organo-metallic complexes [XXX et al.], its lower limit of detection is often less than satisfactory."