

The authors represented the radiation shielding abilities of waste marbles with different concentration of Tungsten oxide particles. The working performance of the composites was tested based on several factors of linear attenuation coefficient (LAC), half value layers (HVL), mean free paths (MFP) and the Z_{eff} . The working topic is suitable with point of view from sustainable aspect where the waste marble samples were treated to be radiation shielding materials. However, I found some points which need to be revised carefully for better understanding for potential readers. Please check the comments below.

1. The explanation on the difference on LAC of marble sample, on nano-WO₃ and micro-WO₃, is not sufficient. I did not see the much gap between LAC of 2.771 cm⁻¹ and 2.871 cm⁻¹. What is the specific relative change in the value of LAC and the real shielding ability of the samples? How the size of particle effect on the LAC value? Please clarify in detail. Simple providing the references is not enough.
2. In figure 6, why the adding higher amount of particles of WO₃ improve the attenuation performance?
3. The morphology (SEM images) on the artificial marbles based-polyester and WO₃ for the series samples from S1 to S4 need to be provided for the detail nano-structural composites. The photographs are not sufficient.
4. The table of comparison on the performance efficiency to reported literature should be added to emphasize the advantage of materials.
5. Please recheck the typos and error in the manuscript.