

The paper titled “Characterization of Pyrolysis Products of Solid Waste Materials and Evaluation of their Suitability as Bioenergy Sources” covers a study on different feedstock utilized in a pyrolysis reactor and evaluate different properties of char, oil and gas. The following comments definitely improve the quality of the manuscript.

Major Comments:

1. In Table 2, the oxygen component increased with an increment in temperature for biochar preparation. At higher temperatures, the devolatilization of oxygen molecules occurs. Kindly give justification for the same. **(still increment of C and O at different temperatures are not clear.)**
2. If feedstock, char, oil and gas contain oxygen, then oil must contain water. How do the authors separate oil from condensate (oil+water)?
3. Figure 4 must be separated by (a) and (b). The temperature range is a bit confusing here. In biochar, you mentioned a temperature range of 350-550°C; here, in gas, you mentioned 100-550°C. **How could you get gases at 100 or 150°C? Kindly explain with kinetics.**

Minor Comments:.

1. Mention the temperature of the ice-cooled bath (section 2.2). Does both bath have the same temperature? Why? **(15-10°C temperature at ice-cooled bath is sufficient to condense all major gases?)**
2. **Remove the sulphur (S) column in Table 2 as there is no value in this column.**