Summary of the modifications on revised paper

\**Authors modifications according to reviewer’s comments are presented as red italic text*

**Reviewer A:**

Please insert a nomenclature reporting the symbols used in the equations.

*Comment accepted. The nomenclature is provided.*

In the introduction, please improve the literature review on wastes thermal
degradation, see:

Bartocci, P., Anca-Couce, A., Slopiecka, K., Nefkens, S., Evic, N.,
Retschitzegger, S., Barbanera, M., Buratti, C., Cotana, F., Bidini, G.,
Fantozzi, F.Pyrolysis of pellets made with biomass and glycerol: Kinetic analysis and
evolved gas analysis (2017) Biomass and Bioenergy, 97, pp. 11-19
Bartocci, P., Barbanera, M., D'Amico, M., Laranci, P., Cavalaglio, G.,
Gelosia, M., Ingles, D., Bidini, G., Buratti, C., Cotana, F., Fantozzi, F.
Thermal degradation of driftwood: Determination of the concentration of
sodium, calcium, magnesium, chlorine and sulfur containing compounds (2017)
Waste Management, 60, pp. 151-157.
*Comment accepted. The literature review is provided.*

Table 1, clear if the values of VM, A, FC and LHV are dry or wet basis. In
the text it is written they are dry basis. So add the db abbreviation also
in the table.

*Comment accepted. Abbreviation is provided in Table 1.*

Figures 11 and 12, add the description of the vertical axe and the units of
measure.

*Comment accepted. The description of the vertical axe and the units are provided in Figures 11 and 12.*

Avoid using bulleted list in the conclusions.
*Comment accepted. Bullets are removed.*

**Reviewer B:**
The Abstract contains long descriptive theoretical explanation of SRF and their utilization; experimental part, results and discussion, as well as conclusions are omitted. For example, characteristics of coffee and waste tires (sources, particle size), heating rates, and temperature of pyrolysis process should be given.

*Comment accepted. The abstract is rephrased according to the comment.*

General Comments
For Symbols in the text should be used italic letters.

*Comment accepted. Italic letters for symbols in the text are provided.*

The same symbol, x, is used for particle size (page 6.) and for degree of
conversion of the process (equation (2), page 7).
*Comment accepted. The symbol for degree of conversion of the process is changed.*

2 EXPERIMENTAL

More data about spent coffee ground (SCG) and waste tires (WT) should be
given, for example: suppliers, why these materials were chosen for
experimental part.

*Comment accepted. More data about SCG and WT are provided in text.*

3 KINETIC THEORY

Page 7. Equation (5), row 21: β is not defined.

*Comment accepted. Definition of β is provided in text.*

Page 8. Row 7.The term "clean separation" is not adequate.
*Comment accepted. The term is replaced.*

4 RESULTS AND DISCUSSION

Table 1. Definition of all symbols should be given in the text.

*Comment accepted. Definition of all symbols are provided.*

Page 11. Figure 2. and Figure 4. The title should be corrected. Sample size
is in the range 0.25<x<0.5 mm (as explained on page 6.)

*Comment accepted. The title of Figures 2 and 4 are provided.*

Page 12, row 7: why results given on Figure 4. are not discussed?

*Comment accepted. Typing mistake. Discussion of results given on Figure 4 are provided.*

Page 13, row 1: "This could also be confirmed on part b of same figures,…"
Where is part b of these Figures, there is no sign b!

*Comment accepted. Typing mistake. Part b of Figures are provided.*

Page 13, rows 4-6: "Also it could be shown that different peaks of the
conversion rate are on different temperatures which is related with amount
and content of the volatile matter for examined samples." The temperatures
should be specified. How peaks are related to volatile matter content of
examined samples?

*Comment accepted. Tempearture and additional comments for peaks and volatile matter content relation are provided.*

Page 14, Figures 5. and 6.: In the tittle should be specified material and particle size (waste tire, sample size 0.25-0.5 mm).

*Comment accepted. Material and particle size in Figures 5 and 6 are provided.*

Page 18. Figures 11. and 12. Activation energy and pre-exponential factor obtained using all methods are more similar for WT, while values obtained for SCG using Friedman method are significantly higher. How this difference can be explained?
*Comment accepted. Additional comments are provided.*

5 CONCLUSION

The authors concluded that Friedman method provide higher values for kinetic
parameters due to different approach… However, activation energy value
obtained by Friedman method is lower than those obtained using KAS method
for WT, 0.25-0.5 mm (Figure 11, page 18).

*Comment accepted. Additional comments are provided.*