



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Annual Research & Review in Biology
Manuscript Number:	Ms_ARRB_40947
Title of the Manuscript:	Improvement of Delignification, Desilication and Cellulosis Content Availability in Paddy Straw via Physico-Chemical Pre-treatments
Type of the Article	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>Keywords: It is better to keep using bioethanol. Biofuel could be placed if it were also invested in other uses, such as the use of the distillation broth (residue) for the biogas production. And use only the word pretreatment.</p> <p>Introduction: I keep mentioning that the Introduction builds the justifications/objectives for the study. Thus, it should be pointed out here the non-functionality of the steam explosion, as well as the best practices in the literature about the pretreatment of this biomass aiming to reduce inhibitions from ash and silicon or the lignin shield and separating the silica that encloses the monosaccharide</p> <p>Line 38 page 2: Although silicon plays significant roles in rice production, such as grain yield and phenolic synthesis, in addition to serving as a shield for the cell wall of the plant [9], this compound has become a limiting factor for pre-treatment and enzymatic digestion of straw.</p> <p>Table 1. If you have already simplified the word room temperature by RT, you can use this simplification in the other settings. It could simplify autoclaving, since all are in the same condition</p> <p>Table 2: I continue to point out that the significance test was done, with the presentation of the letters, you have to discuss them with them. Between 2 and 5 mm there is significant difference in all determinations. However, between 5 and 8 mm this is not observed, with difference more significant only for ash content. Of course your discussions are valid. But you have to present it based on everything that was put. One more curiosity. What was replicated? Analysis or pretreatment? It should be placed. The most interesting would be the pretreatments</p>	<p>1) The keyword of Biofuel has been changed to bioethanol as suggested by the reviewer. The keyword of chemical pretreatment and physical pretreatment has been changed to only pretreatment and word delignification has been added to replace the word for chemical pretreatment.</p> <p>2) New justification of the study has been added on Line 65 -71; which includes the non-functionality of the steam explosion and reason for choosing chemical pretreatment.</p> <p>3) The sentence has been changed as suggested by the reviewer.</p> <p>4) The word room temperature has been simplified to RT as suggested by the reviewer. All conditions of autoclaved have been removed since the condition has been explained earlier in Table 2 for Autoclaved pretreatment.</p> <p>5) The statistical analysis for Table 2 between size 5 mm and 8 mm has been discussed in Line 126 -129. The pretreatment has been replicated for three times and has been added to the Table 2 for a clearer description.</p>