

Dear Authors,

The work submitted to me for review titled "Low-Waste Grafting Copolymerization Modification of 2 Chitosan Is a Promising Approach to Obtaining Materials for 3 Food Applications" is part of the current research topic on innovative packaging materials by green chemistry requirements. The authors synthesized a new material in the copolymerization process of chitosan and PVP. They refined the reaction conditions to obtain a material with the best physicochemical parameters without using heavy metal ions or organic solvents. I have no objections to the substantive part, but I suggest the authors enrich it in accordance with the comments below. Since the authors propose using the obtained material to produce packaging, some information about the product's appearance, the physical form in which it was analyzed, and the possibilities of its shaping. It may be worth posting a photo of the final product. For the packaging industry, the best solution would be the ability to form films - have any attempts been made to obtain them? Furthermore, the analysis of the mechanical properties would be valuable. Figures 2 (a, b) require editorial correction. Uniform colors should be kept for the spectra of the same sample, but I suggest choosing darker colors; light colors reduce the readability of the drawings and increase the font - the descriptions are almost illegible.

Table 2: there is $n(\text{Cht})/n(\text{VP})$ - should it be $n(\text{Cht})/n(\text{PVP})$?