[ijabme] Article Review Request

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Chuchart Pintavirooj, Ph.D. via Thai Journals Online (ThaiJO) <admin@tci-thaijo.org> อ. 14 ม.ค. 11:14
ถึง ฉัน ▾

🔤 แปลเป็นภาษาไทย   ✕

Dr. Surachet Toommee

I believe that you would serve as an excellent reviewer of the manuscript, "Effect of alkali-treated coconut fiber in chitosan film on physical and mechanical properties for medical application.," which has been submitted to International Journal of Applied Biomedical Engineering (IJABME). The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Please log into the journal web site by 2025-01-28 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation.

The review itself is due 2025-01-28.

Submission URL: https://li01.tci-thaijo.org/index.php/ijabme/reviewer/submission?submissionId=265289&reviewId=129811&key=25dW4E

Thank you for considering this request.

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"Effect of alkali-treated coconut fiber in chitosan film on physical and mechanical properties for medical application."

This study aimed to compare the physical and mechanical properties of chitosan films mixed with cellulose fiber derived from coconut husks under various conditions. These conditions included c

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"Effect of alkali-treated coconut fiber in chitosan film on physical and mechanical properties for medical application."

This study aimed to compare the physical and mechanical properties of chitosan films mixed with cellulose fiber derived from coconut husks under various conditions. These conditions included different concentrations of NaOH used for treating the cellulose fiber and varying amounts of fiber incorporated into the chitosan film. The experiments were conducted in a laboratory setting, testing chitosan films mixed with cellulose fiber under 12 different conditions, characterized by distinct concentrations of NaOH and amounts of fiber added. The physical and mechanical properties of the resulting films were subsequently examined. The treatment of coconut fiber with NaOH enhanced the tensile strength of the chitosan films, while simultaneously reducing their %elongation. Additionally, films containing 0.25g of cellulose fiber exhibited a lower swelling ratio compared to those with 0.10g of fiber. However, variations in fiber quantity and NaOH concentration did not significantly affect thermal stability. Based on the findings, it can be concluded that the chitosan film formulated with 4% NaOH and 0.25wt% cellulose fiber exhibited the most favorable physical and mechanical properties for future development.

International Journal of Applied Biomedical Engineering (IJABME)

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