



Rahmayetty Rahmayetty &lt;rahmayetty@untirta.ac.id&gt;

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**[ABS-30] Abstract Submitted to ICFSI 2018**

1 pesan

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6 Oktober 2018 pukul 15.35

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Dear Dr. Rahmayetty Rahmayetty,

We have received the submission of your abstract:

Abstract ID:

ABS-30

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Title:

THE EFFECT OF ADDING CELLULOSE NANOCRYSTALLINE TO THE MECHANICAL PROPERTIES OF COMPOSITE EDIBLE FILM (PLA/CNC) FOR FOOD PACKAGING APPLICATIONS

Authors:

Rahmayetty, Endarto Y. Wardhono, Alfirano, Nufus Kanani

Institutions:

Universitas Sultan Ageng Tirtayasa

Content:

Edible film is a thin and transparent plastic made from edible materials and actively protects packaged material from damage due to the environment and microorganisms. One polymer that has the potential to be developed as a raw material for edible films is polylactic acid (PLA). The very fragile nature of PLA limits its use for food packaging applications. Modification of PLA with nanocrystalline cellulose (CNC) can improve the mechanical properties of tensile strength and elongation at break of PLA. This study aims to obtain PLA-CNC edible film formulations that produce the best characteristics. The results showed that the fewer addition of CNC decreased tensile strength and increased elongation at break in edible films. Edible films with the best mechanical properties are 20% CNC.

Keywords:

edible film, PLA, CNC, tensile strength, elongation at break

Topic:

Innovation Food Security of Engineering

Presenter:

Rahmayetty Rahmayetty

Type:

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**[ABS-30] Abstract Edited**

2 pesan

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Title:  
THE EFFECT OF CELLULOSE NANOCRYSTALLINE BLENDING TO THE MECHANICAL PROPERTIES OF COMPOSITE EDIBLE FILM (PLA/CNC)

Authors:  
Rahmayetty, Endarto Y. Wardhono, Alfirano, Nufus Kanani

Institutions:  
Universitas Sultan Ageng Tirtayasa

Content:

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Rahmayetty Rahmayetty

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Authors:

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Institutions:

Universitas Sultan Ageng Tirtayasa

Content:

Edible film is a thin and transparent plastic made from edible materials and protects material from damage due to the environment and microorganisms disaster. Polylactic acid (PLA) is one of polymer which potentially used as raw material of edible films. PLA is a very fragile nature material, so it necessary combining PLA with nanocrystalline cellulose (CNC) to improve it is properties. Combining PLA with nanocrystalline cellulose (CNC) could increase the mechanical properties of tensile strength and elongation at break of PLA. The aim of this study was to obtain the the best formulation of PLA-CNC to get the optimum tensile strength and elongation at break of PLA. The result showed that the addition of CNC was decrease tensile strength and increased elongation at break. The best mechanical properties of edible film is reached by using 20% CNC.

[Kutipan teks disembunyikan]



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## icfsi 2018 revised manuscript

3 pesan

**ICFSI Untirta** <icfsi@untirta.ac.id>

16 Januari 2019 pukul 07.11

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Acknowledged.

[Kutipan teks disembunyikan]