

## DAFTAR PUSTAKA

- [1] Modebelu M. N dan Edward I. “Environmental health hazards and rural community development in Abia State of Nigeria”. *International Letters of Natural Science*. Vol. 20: 129-138, 2014.
- [2] J. R. Jambeck, *et. All*. “Plastic waste inputs from land into the ocean”. *Science*, Vol. 347, No. 6223, PP. 768–770, 2015.
- [3] S. M. Emadian, T. T. Onay, and B. Demirel. “Biodegradation of bioplastics in natural environments” *Waste Manag*, 2016.
- [4] Jayachandra Y, *et. All*. “biodegradable plastic production from fruit waste Material and its sustainable use for green applications”, *International Journal of Pharmaceutical Research & Allied Sciences*. Vol. 5, No.4, Hal. 56-66, 2016.
- [5] Nanang E.W dan Heru Suryanto. “Analysis of Biodegradation of Bioplastic Made of Cassava Starch”. *Journal Of Mechanical Engineering Science and Technology*. Vol. 1, No.1, PP. 24-31, 2017.
- [6] Harunsyah, M. Yunus, dan R. Fauzan. “Mechanical Properties of Bioplastic Cassava Starch Film With Zinc Oxide Nanofilter as Reinforcement”. *International Technical Postgraduate Conference*, Vol. 210, No.17: 2-9, 2017.
- [7] N.E Wahyuningtiyas dan H. Suryanto. “Properties of Cassava Starch Based Bioplastic Reinforced By Nanoclay”. *Journal Of Mechanical Engineering Science and Technology*, Vol. 2, No. 1: 20-26, 2018.
- [8] J.G Akpa dan K.K Degde. “Modification of Cassava Starch for Industrial Uses”. *International Journal of Engineering and Technology*, Vol. 2, No. 6:2049-3444, 2012.
- [9] I. Mutmainna. *Shynthesis Starch/Chitosan/Pineapple Leaf Fiber Reinforced Composite For Biodegradable Plastic Food Packaging Application*. Tesis, Departemen Fisika, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Hasanuddin, Makassar, 2019.
- Arsad dan S. Hamdi. “Teknologi Pengolahan dan Pemanfaatan Karbon



- Aktif untuk Industri”. *Jurnal Riset Industri Hasil Hutan*, Vol. 2, No. 2: 43-51, 2010.
- [11] A.G Haji, G. Pari, M. Nazar dan Habibati. “Characterization of Acticated Carbon Produced From Urban Organic Waste”. *International Journal of Science and Engineering*, Vol. 5, No. 2: 89-94, 2013.
- [12] M.Z.B Yunos dan W.A.W.A Rahman. “Effect of Glycerol on Performance Rice Straw/Starch Based Polymer”. *Journal of Applied Sciences*, Vol. 11, No. 13: 2456-2459, 2011.
- [13] H Judawisastra, R D R Sitohang, L Marta, Mardiyati. Water absorption and its effect on the tensile properties of tapioca starch/polyvinyl alcohol bioplastics. *IOP Publishing*, Vol. 223, 2017.
- [14] I. Mutmainna, D. Tahir, P. Lobo, Sultan. Synthesis Composite Starch-Chitosan as biodegradable plastic for food packaging. *ICOMSET2018*, 2019.
- [15] Y. Song dan Zheng. “Preparation and Properties Of Thermo Molded Bioplastics of Glutenin-rich Fraction”. *Cereal Sci*, Vol. 48, No. 4, 2008.
- [16] Meulen I, et. All. “Polymers from functional macrolactones as potential biomaterials: enzymatic ring opening polymerization, biodegradation, and biocompatibility”. *Biomacromolecules*, Vol. 9, No. 34, hh. 4–10, 2018.
- [17] Junjie dan Hanna. “Functional Properties Of Starch Acetate and com cob fiber”. *Crops Prod*, Vol. 10, No. 3, 2004.
- [18] R. Suryani dan F.C. Nisa. “Modifikasi Pati Singkong (*Manihot Esculenta*) dengan Enzim Amilase Sebagai Agen Pembunuh Serta Aplikasinya pada Proses Pembuatan Marsmallow”. *Jurnal Pangan dan Agroindustri*, Vol. 3, No. 2: 723-733, 2015.
- [19] Selpiana, Patricia dan C.P. Anggraeni. “Pengaruh Penambahan Kitosan dan Gliserin pada Pembuatan Bioplastik dari Ampas Tebu dan Ampas Tahu”. *Jurnal Teknik Kimia*, Vol. 22, No. 1, 2016.
- [19] Mutmainna, D. Tahir, P. Lobo, S. Ilyas, A Saludung. “Pineapple Leaf



Microfibers Effect on Structural Properties and Bonding Characteristics of Composite Starch/Chitosan for Bioplastic Food Package Applications”. *IOP Publishing*, 2019.

- [21] A.A Bunaciu, et. All. “X-Ray Diffraction: Instrumentation and Applications”. *Critical Reviews in Analytical Chemistry*, Vol. 45, hh. 289–299, 2015.
- [22] O.S Jangong, P.L Gareso, I. Mutmainna, D Tahir. “Fabrication and Characterization Starch/Chitosan Reinforced Polypropylena as Biodegradable”. *ICOS*, 2019.
- [23] P. Kampeerappun, D. Aht-ong, D. Pentrakoon, and K. Srikulkit. Preparation of cassava starch/montmorillonite composite film, *Carbohydr. Polym.*, vol. 67(2):. 155–163. 2007.
- [24] J. Bonilla, Vicentini M, Dos Rodolfo M C, Bittante Q B, and Sobral Paulo J A. Mechanical properties of cassava starch films as affected by different plasticizers and different relative humidity conditions, *Int. J. Food Stud.*, vol. 4(4): 116–125. 2015.
- [25] A. Septiosari, Latifah dan E. Kusumastuti. “Pembuatan dan karakterisasi bioplastik limbah biji manga dengan Penambahan selulosa dan gliserol”. *Indonesian Journal Of Chemical Science*. Vol. 3, No. 2, 2014.
- [26] Yu,Z. Li,B. Chu,J. Zhang,P. *Silica in situ enhanced PVA/chitosan biodegradable films for food packages*. Elseiver. *Polymer Testing* 62 (2017): 278-286. 2018.
- [27] A. Farahnaky, B Saberi dan M Majzoobi. “ Effect Of Glyceron On Physical and Mechanical Properties of Wheat Starch Edible Films”. *Journal of Texture Studies*. Vol. 44, No. 13, 2014.





Optimization Software:  
[www.balesio.com](http://www.balesio.com)