

DAFTAR PUSTAKA
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- Abdullah, A. H. D., Putri, O. D., Fikriyyah, A. K., Nissa, R. C., Hidayat, S., Septiyanto, R. F., Karina, M., & Satoto, R. (2020). Harnessing the Excellent Mechanical, Barrier and Antimicrobial Properties of Zinc Oxide (ZnO) to Improve the Performance of Starch-based Bioplastic. *Polymer-Plastics Technology and Materials*, 59(12), 1259–1267.
- Abdullah, A. H. D., Putri, O. D., & Sugandi, W. W. (2019). Effects of Starch-Glycerol Concentration Ratio on Mechanical and Thermal Properties of Cassava Starch-Based Bioplastics. *Jurnal Sains Materi Indonesia*, 20(4), 162.
- Abрал, H., Basri, A., Muhammad, F., Fernando, Y., Hafizulhaq, F., Mahardika, M., Sugiarti, E., Sapuan, S. M., Ilyas, R. A., & Stephane, I. (2019). A simple method for improving the properties of the sago starch *films* prepared by using ultrasonication treatment. *Food Hydrocolloids*, 93, 276–283.
- Acid, F., & Indicator, B. (2019). *Indonesian Journal of Chemical Science and Technology*. 104–107.
- Aditya Nugraha, L., Dewi Triastianti, R., & Prihandoko, D. (2020). Uji Perbandingan Plastik Biodegradabel Pati Singkong Dan Pati Kentang Terhadap Kekuatan Dan Pemanjangan. *Jurnal Rekayasa Lingkungan*, 20(1), 17–28. <https://doi.org/10.37412/jrl.v20i1.38>
- Ashter, S. A. (2016). Introduction to bioplastics engineering. William Andrew.
- BPS (Badan Pusat Statistik). (2021). Jumlah Penduduk Indonesia Bulan Januari Tahun 2021.
- Chozhavendhan, S., Karthiga Devi, G., Bharathiraja, B., Praveen Kumar, R., & Elavazhagan, S. (2019). Assessment of crude glycerol utilization for sustainable development of biorefineries. In *Refining Biomass Residues for*

Sustainable Energy and Bioproducts: Technology, Advances, Life Cycle Assessment, and Economics. Elsevier Inc.

Darni, Y., Sitorus, T. M., & Hanif, M. (2014). *Produksi Bioplastik dari Sorgum dan Selulosa Secara Termoplastik Thermoplastic Processing of Sorghum and Cellulose to Produce Bioplastics*. 10(2), 55–62.

Darni, Y., & Utami, H. (2010). *Studi Pembuatan dan Karakteristik Sifat Mekanik dan Hidrofobitas Bioplastik dari Pati Sorgum*. 7(4), 88–93.

Deb, P. K., Kokaz, S. F., Abed, S. N., Paradkar, A., & Tekade, R. K. (2019). *Pharmaceutical and Biomedical Applications of Polymers*.

Djafari Petroudy, S. R. (2017). Physical and mechanical properties of natural fibers. In *Advanced High Strength Natural Fibre Composites in Construction* (pp. 59–83). Elsevier Inc.

Gómez, E. F., & Michel, F. C. (2013). Biodegradability of conventional and bio-based plastics and natural fiber composites during composting, anaerobic digestion and long-term soil incubation. *Polymer Degradation and Stability*, 98(12), 2583–2591.

Gracia, R. (2005). Zinc oxide. In *Encyclopedia of Toxicology* (pp. 481–483). Elsevier.

Hernández, N., Williams, R. C., & Cochran, E. W. (2014). *Biomolecular Chemistry*. 2834–2849.

Ibrahim, S., Riahi, O., Said, S. M., Sabri, M. F. M., Rozali, S., & Lumpur, K. (2019). *Biopolymers From Crop Plants*. 1–10.

Illing, I., & MB, S. (2017). Uji Ketahanan Air Bioplastik Dari Limbah Ampas Sagu Dengan Penambahan Variasi Konsentrasi Gelatin. *Prosiding Seminar Nasional Universitas Cokroaminoto Palopo*, 03, 182–189.

Joseph, C. S., Prashanth, K. V. H., Rastogi, N. K., Indiramma, A. R., Reddy, S. Y., & Raghavarao, K. S. M. S. (2011). Optimum Blend of Chitosan and Poly-(ϵ -caprolactone) for Fabrication of *Films* for Food Packaging Applications. *Food and Bioprocess Technology*, 4(7), 1179–1185.

[JIS] Japanese Industrial Standard 2-1707. 1975. Japanese Standards Association. Japan.

Hidayat, S., Abdullah, A. H. D., Septiyanto, R. F., Muchtar, Y. R. D., & Affifah, I. (2019). PERBANDINGAN SIFAT MEKANIK BIOPLASTIK TERHADAP PENAMBAHAN ZINC OXIDE (ZnO). *Gravity: Jurnal Ilmiah Penelitian Dan Pembelajaran Fisika*, 5(2).

Kadir. (2012). Kajian Pemanfaatan Sampah Plastik Sebagai Sumber Bahan Bakar Cair. *Jurnal Ilmiah Teknik Mesin*, 3(2), 223–228.

Kholidah, N., Faizal, M., & Said, M. (2018). Polystyrene Plastic Waste Conversion into Liquid Fuel with Catalytic Cracking Process Using Al₂O₃ as Catalyst. *Science and Technology Indonesia*, 3(1), 1–6.

Kim, I. Y., Seo, S. J., Moon, H. S., Yoo, M. K., Park, I. Y., Kim, B. C., & Cho, C. S. (2008). Chitosan and its derivatives for tissue engineering applications. *Biotechnology Advances*, 26(1), 1–21.

Kumar, S. (2017). *Bioplastics - classification, production and their potential for food applications*.

Kumar, V., Othman, N., & Mohd-Asharuddin, S. (2020). Partial replacement of alum by using natural coagulant aid to remove turbidity from institutional wastewater. *International Journal of Integrated Engineering*, 12(4), 241–251.

Mohammadi Nafchi, A., Moradpour, M., Saeidi, M., & Alias, A. K. (2014). Effects of nanorod-rich ZnO on rheological, sorption isotherm, and physicochemical properties of bovine gelatin *films*. *LWT - Food Science and Technology*, 58(1), 142–149.

Mohamed Shameer, P., & Mohamed Nishath, P. (2019). Exploration and enhancement on fuel stability of biodiesel: A step forward in the track of global commercialization. In *Advanced Biofuels: Applications, Technologies and Environmental Sustainability* (pp. 181–213). Elsevier.

Mohan, S., Oluwafemi, O. S., Kalarikkal, N., Thomas, S., & Songca, S. P. (n.d.). (2016). *Biopolymers – Application in Nanoscience and Nanotechnology*.

Mota, C. J. A., Pinto, B. P., & de Lima, A. L. (2017). Glycerol: A Versatile Renewable Feedstock for the Chemical Industry. In *Glycerol: A Versatile Renewable Feedstock for the Chemical Industry*.

Ningrum, E. O., Ardiani, L., Rohmah, N. A., & Fajar, N. (2019). Modifikasi Biokomposit Kitosan dari Cangkang Rajungan (*Portunus Pelagicus*) dan Pektin untuk Aplikasi Edible *Film*. *Institut Teknologi Sepuluh Nopember, April*, 4–9.

Oktavia, A. D., Idiawati, N., & Lia, D. (2013). STUDI AWAL PEMISAHAN AMILOSA DAN AMILOPEKTIN PATI UBI JALAR (*Ipomoea*). *Jurnal Kimia*, 2(3), 153–156.

Pirring, O.G. and A.L. Baner. (2000). Plastic packaging materials for food barrier function, mass transport, quality assurance and legislation. Weinheim and New York: Wiley-VCA.

Postek, M., & Brown, E. (n.d.). *Sustainable, renewable nanomaterials may replace carbon nanotubes*. 1–2.

Pradipta, Akhdan Rifqi, Irawati, Dery Junika, N. (2020). Inovasi plastic biodegradable dengan karakteristik edible *film* dari bonggol pisang dan limbah kulit singkong dengan plasticizer gliserol. *Jurnal Ilmiah Penalaran Dan Penelitian Mahasiswa*, 4(2), 154–162.

Prusty, K., Barik, S., & Swain, S. K. (2018). A Correlation Between the Graphene Surface Area, Functional Groups, Defects, and Porosity on the Performance of the Nanocomposites. In *Functionalized Graphene Nanocomposites and Their Derivatives: Synthesis, Processing and Applications* (pp. 265–283). Elsevier.

Rahman, R., & Putra, S. Z. F. S. (2018). Tensile properties of natural and synthetic fiber-reinforced polymer composites. In *Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites* (pp. 81–102). Elsevier.

Rindlav-Westling, Å., Stading, M., Hermansson, A. M., & Gatenholm, P. (1998). Structure, mechanical and barrier properties of amylose and amylopectin films. *Carbohydrate Polymers*, 36(2–3), 217–224.

Rochmawati, Z. N., Nabila, F., & Ainurrohmah, C. (2018). Karakterisasi Kitosan Yang Diisolasi Dari Cangkang Internal Cumi-Cumi. *Saintekno! : Jurnal Sains Dan Teknologi*, 16(1), 105–112.

Saputra, W., Hartiati, A., & Harsojuwono, B. A. (2019). Pengaruh Konsentrasi Seng Oksida (ZnO) dan Penambahan Gliserol terhadap Karakteristik Bioplastik dari Pati Umbi Gadung (*Dioscorea hispida* Deenst). *Jurnal Rekayasa Dan Manajemen Agroindustri*, 7(4), 531.

Sindhu, R., Binod, P., & Pandey, A. (2015). Microbial Poly-3-Hydroxybutyrate and Related Copolymers. In *Industrial Biorefineries and White Biotechnology* (pp. 575–605).

Soni, D., Trivedi, M., & Ameta, R. (2014). Polymerization. In *Microwave-Assisted Organic Synthesis: A Green Chemical Approach*.

Sudhakar, Y. N., Selvakumar, M., & Bhat, D. K. (2018). Methods of Preparation of Biopolymer Electrolytes. *Biopolymer Electrolytes*, 35–52.

Thapa, B., & Narain, R. (2016). Mechanism, current challenges and new approaches for non viral gene delivery. In *Polymers and Nanomaterials for Gene Therapy*. Elsevier Ltd.

Utami, M. R., & Widiarti, N. (2014). Sintesis Plastik Biodegradable Dari Kulit Pisang Dengan Penambahan Kitosan Dan Plasticizer Gliserol. *Indonesian Journal of Chemical Science*, 3(2).

Yuniarti, L., Hutomo, G. S., & Rahim, A. (2014). Sintesis Dan Karakterisasi Bioplastik Berbasis Pati Sagu (*Metroxylon* sp). *E-J. Agrotekbis*, 2(1), 38–46.

Win, S. S., & Trabold, T. A. (2018). Sustainable waste-to-energy technologies: Transesterification. In *Sustainable Food Waste-to-Energy Systems* (pp. 89–109). Elsevier.

Zhuang, H., Barth, M. M., & Cisneros-Zevallos, L. (2013). Modified Atmosphere Packaging for Fresh Fruits and Vegetables. In *Innovations in Food Packaging: Second Edition* (pp. 445–473). Elsevier Ltd.

Zhang, Z., Ortiz, O., Goyal, R., & Kohn, J. (2014). Biodegradable Polymers. In *Handbook of Polymer Applications in Medicine and Medical Devices* (pp. 303–335). Elsevier Inc.

