

DAFTAR PUSTAKA

1. Phiri R, Mavinkere Rangappa S, Siengchin S, Oladijo OP, Dhakal HN. Development of sustainable biopolymer-based composites for lightweight applications from agricultural waste biomass: A review. *Adv Ind Eng Polym Res* 2023;6(4):436–450.
2. Pelegrini BL, Ré F, Oliveira MM de, et al. Cellulose Nanocrystals as a Sustainable Raw Material: Cytotoxicity and Applications on Healthcare Technology. *Macromol Mater Eng* 2019;304(8):1–32.
3. Rahmayetty. *Pengantar Selulosa dan Selulosa Asetat*. Indramayu: Penerbit Adab, 2023;
4. Hermayanti J, Lailatul R, Amalia A. Isolasi Mikroselulosa dari Limbah Eceng Gondok (*Eichhornia crassipes*) dengan Metode Bleaching -Alkalinasi. *ALCHEMY J Penelit Kim* 2019;15(2):239–250.
5. Lin N, Dufresne A. Nanocellulose in biomedicine : Current status and future prospect. *Eur Polym J* 2014;59:302–325.
6. Cherian BM, Leão AL, Souza SF de, Thomas S, Pothan LA, Kottaisamy M. Isolation of nanocellulose from pineapple leaf fibres by steam explosion. *Carbohydr Polym* 2010;81(3):720–725.
7. Khan A, Raghunathan V, Singaravelu DL, et al. Extraction and Characterization of Cellulose Fibers from the Stem of *Momordica Charantia*. *J Nat Fibers* 2022;19(6):2232–2242.
8. Putri M. *Isolasi dan Karakterisasi Nanoselulosa Dari Kulit Buah Nipah (Nypa fruticans)*. Padang: Universitas Andalas, 2024;
9. Siti Fikroh Masyruroh. Identifikasi Kandungan Senyawa Kimia Pada Buah *Momordica charantia* (Pare) Terhadap Penurunan Kadar Glukosa Darah. *J Educ Lang Res* 2021;1(5):2807–937.
10. Widowati retno. *Biologi Sel : Jilid 1*. 1st ed. Indramayu: CV. Adanu Abimata, 2024;
11. Ningtyas K rimadhanti, Muslihudin M, Sari IN. Sintesis Nanoselulosa dari Limbah Hasil Pertanian dengan Menggunakan Variasi Konsentrasi Asam. *J Penelit Pertan Terap* 2020;20(2):142–147.
12. Effendi DB, Rosyid NHR, Nandiyanto ABD, Mudzakir A. Review: Sintesis Nanoselulosa. *J Integr proses* 2015;5(2):61–74.
13. Anžlovar A, Kunaver M, Krajnc A, Žagar E. Nanocomposites of LLDPE and surface-modified cellulose nanocrystals prepared by melt processing. *Molecules* 2018;23(7):1–14.
14. Kirubanandan S. Spray Coated Cellulose Nanofiber Laminates on the Paper to Enhance its Barrier and Mechanical Properties. *Orig Artic J Sustain Environ Manag* 2022;1(1):10–17.
15. Oliveira Barud HG de, Silva RR da, Borges MAC, Castro GR, Ribeiro SJL, Silva Barud H da. Bacterial Nanocellulose in Dentistry: Perspectives and Challenges. *Molecules* 2021;26(1).
16. Lestari MD, Sudarmin, Harjono. Ekstraksi Selulosa dari Limbah Pengolahan Agar Menggunakan Larutan NaOH sebagai Prekursor Bioetanol. *Indones J Chem Sci* 2018;7(3):236–241.
17. Maniar V, Kalsara K, Upadhyay U. A Review of Ftir-An Useful Instrument. *Int J Pharm Res Appl* 2023;8(1):2486.
18. Setianingsih T, Yuniar Ponco Prananto. *Spektroskopi Inframerah untuk Karakterisasi Material Anorganik*. Malang: Universitas Brawijaya Press, 2020;
19. Epp J. *X-Ray Diffraction (XRD) Techniques for Materials Characterization*. Elsevier Ltd, 2016;
20. Masrurroh, Manggara A, Papilaka T, T RT. Penentuan ukuran Kristal (crytallite size) lapisan tipis PZT melalui pendekatan persamaan Debye Scherrer. *Jur Fis dan Kim FMIPA Univ Brawijaya* 2013;1(2):24–29.
21. Salem KS, Kasera NK, Rahman MA, et al. Comparison and assessment of methods for cellulose crystallinity determination. *Chem Soc Rev* 2023;52(18):6417–6446.
22. Xiao K, Xu Y, Cao X, Xu H, Li Y. Advanced characterization of membrane surface fouling. *60 Years Loeb-Sourirajan Membr Princ New Mater Model Charact Appl* 2022;499–532.

23. Kumar, Ch Sateesh, M. Muralidhar Singh RK. *Advanced Materials Characterization Basic Principles, Novel Applications, and Future Directions*. Florida: CRC Press, 2023;
24. Hossen MT, Kundu CK, Pranto BRR, et al. Synthesis, characterization, and cytotoxicity studies of nanocellulose extracted from okra (*Abelmoschus Esculentus*) fiber. *Heliyon* 2024;10(3):e25270.
25. Patra A. *South African Journal of Chemical Engineering* Fabrication of coconut dregs residue derived nano-cellulose film for food packaging. *South African J Chem Eng* 2024;48:71–79.
26. Alvarado MC, Ignacio MCCD, Acabal MCG, Lapuz ARP, Yaptenco KF. Review on nanocellulose production from agricultural residue through response surface methodology and its applications. *Nano Trends* 2024;8:100054.
27. Owonubi SJ, Agwuncha SC, Malima NM, Shombe GB, Makhatha EM, Revaprasadu N. Non-woody Biomass as Sources of Nanocellulose Particles: A Review of Extraction Procedures. *Front Energy Res* 2021;9.
28. Li J, Zha YN, Wang HM, Tian JN, Hou QX. Advances in lignin chemistry during pulping and bleaching. *Ind Crops Prod* 2025;229:121004.
29. Hishikawa Y, Togawa E, Kondo T. Characterization of Individual Hydrogen Bonds in Crystalline Regenerated Cellulose Using Resolved Polarized FTIR Spectra. *ACS Omega* 2017;2(4):1469–1476.
30. Kaushik A, Singh M. Isolation and characterization of cellulose nanofibrils from wheat straw using steam explosion coupled with high shear homogenization. *Carbohydr Res* 2011;346(1):76–85.
31. Benchikh L, Merzouki A, Grohens Y, Guessoum M, Pillin I. Characterization of cellulose nanocrystals extracted from *El Diss* and *El Retma* local plants and their dispersion in poly(vinyl alcohol-co-ethylene) matrix in the presence of borax. *Polym Polym Compos* 2021;29(3):218–230.
32. Poletto M, Pistor V, J. A. Structural Characteristics and Thermal Properties of Native Cellulose. *Cellul - Fundam Asp* 2013;
33. Nang An V, Chi Nhan HT, Tap TD, Van TTT, Viet P Van, Hieu L Van. Extraction of High Crystalline Nanocellulose from Biorenewable Sources of Vietnamese Agricultural Wastes. *J Polym Environ* 2020;28(5):1465–1474.
34. Aminu M. Acid Hydrolysis-Mediated preparation of Nanocrystalline Cellulose from Rice Straw. *Int J Nanomater Nanotechnol Nanomedicine* 2017;3:051–056.

