

## DAFTAR PUSTAKA

1. Arsi A, Nugraha SI, SHK S, et al. Keanekaragaman Serangga di Tanaman Gambas (*Luffa acutangula* L.) pada Lahan Monokultur dan Tumpang Sari di Desa Tanjung Pering Kecamatan Indralaya Utara Kabupaten Ogan Ilir. *Sainmatika J Ilm Mat dan Ilmu Pengetahuan Alam* 2022;19(1):86.
2. Bayu GF, F MH, Kurniati E. Sintesis Natrium Karboksimetilselulosa(Na-CMC) dari Serat Gambas Tua (*Luffa Acutangula*). *Chempro* 2023;3(2):56–61.
3. Mulyadi I. Isolasi Dan Karakterisasi Selulosa : Review. *J Saintika Unpam J Sains dan Mat Unpam* 2019;1(2):177.
4. Jiang J, Zhu Y, Jiang F. Sustainable isolation of nanocellulose from cellulose and lignocellulosic feedstocks: Recent progress and perspectives. *Carbohydr Polym* [internet] 2021;267(April):118188. Available from: <https://doi.org/10.1016/j.carbpol.2021.118188>
5. Fikri A. Sintesis Masker Gel Nanoselulosa Dari Bahan Daun Ubi Jalar Merah. *Syntax Lit J Ilmu Indonesia* 2017;2(11):16–27.
6. C RBG, Prasad G, Shin M, Prasad K. Bioresource Technology Reports Nanocellulose from Mankamana-3 corncob biomass: Synthesis , characterization , surface modification and potential applications. 2024;28(September):101971.
7. Fauzi FD, Dhany Wicaksono H, Waluyo J. BIOTEKNOLOGI & BIOSAINS INDONESIA A REVIEW OF NANOCELLULOSE SYNTHESIS METHODS AND ITS APPLICATION Review Metode Sintesis Nanoselulosa dan Aplikasinya. *J Bioteknol biosains Indones* [internet] 2023;10(1):128–149. Available from: <http://ejurnal.bppt.go.id/index.php/JBBI>
8. Shendge PN, Belemkar S. Therapeutic potential of luffa acutangula: A review on its traditional uses, phytochemistry, pharmacology and toxicological aspects. *Front Pharmacol* 2018;9(OCT).
9. Shirish P, M PV, Dinesh D. Pharmacological review of *Luffa acutangula* (L) Roxb. *J Pharmacogn Phytochem* [internet] 2020;9(5):110–116. Available from: [www.phytojournal.com](http://www.phytojournal.com)
10. Aharudin A, Mustapa K, Jura MR. Analysis of Flavonoid Levels in Extract of Gambas Fruit (*Luffa acutangula* L) Originating from the Village of Posona District Parigi Moutong. *J Akad Kim* 2020;9(2):102–106.
11. Fahma F, Lestari FA, Kartika IA, Lisdayana N, Iriani ES. Nanocellulose sheets from oil palm empty fruit bunches treated with NaOH solution. *Karbala Int J Mod Sci* 2021;7(1):10–17.
12. Etale A, Onyianta AJ, Turner SR, Eichhorn SJ. Cellulose: A Review of Water Interactions, Applications in Composites, and Water Treatment. *Chem Rev* 2023;123(5):2016–2048.
13. Aditama AG, Ardhyananta H. Isolasi Selulosa dari Serat Tandan Kosong Kelapa Sawit untuk Nano Filler Komposit Absorpsi Suara: Analisis FTIR. *J Tek ITS* 2017;6(2):228–231.
14. Ningtyas KR, Muslihudin M, Sari IN. Sintesis Nanoselulosa dari Limbah Hasil Menggunakan Variasi Konsentrasi Asam Pertanian dengan Synthesis of Nanoselulosa from Agricultural Waste Using Variation Acid Concentration. 2020;20(2):142–147.
15. Solhi L, Guccini V, Heise K, et al. Understanding Nanocellulose-Water Interactions: Turning a Detriment into an Asset. *Chem Rev* 2023;123(5):1925–2015.
16. Benshlomo O. Pembuatan Nanoselulosa dari Ampas Tebu Menggunakan Metode Hidrolisis asam. 2023;4(1):88–100.
17. Wang X, Guo J, Ren H, et al. Research progress of nanocellulose-based food packaging. *Trends Food Sci Technol* [internet] 2024;143(September 2023):104289. Available from: <https://doi.org/10.1016/j.tifs.2023.104289>
18. Utami F. Preparasi Nanoselulosa dari Tongkol Jagung dengan Metode Hidrolisis Asam Pada Berbagai Variasi Waktu Sonikasi. 2017;
19. Nina Hartati. Isolasi, Karakterisasi, Dan Aplikasi Nanokristal Selulosa : Review. *JSSIT J Sains dan Sains Terapan* 2023;1(2):29–38.
20. Roy A, G SRA. Elsevier reference collection in chemistry, molecular sciences and chemical engineering. 2013;7(2):786–788.

21. Ali A, Chiang YW, Santos RM. X-Ray Diffraction Techniques for Mineral Characterization: A Review for Engineers of the Fundamentals, Applications, and Research Directions. *Minerals* 2022;12(2).
22. Maniar V, Kalsara K, Upadhyay U. A Review of Ftir-An Useful Instrument. *Int J Pharm Res Appl* [internet] 2023;8(1):2486. Available from: [www.ijprajournal.com](http://www.ijprajournal.com)
23. Sandhu R, Singh N, Dhankhar J, Kama G, Sharma R. Dynamic light scattering (DLS) technique, principle, theoretical considerations and applications. *Nanotechnological Biochem Tech Assess Qual Saf Milk Milk Prod* [internet] 2018;(February 2019):135–137. Available from: [https://www.researchgate.net/publication/331022012\\_Dynamic\\_light\\_scattering\\_DLS\\_technique\\_principle\\_theoretical\\_considerations\\_and\\_applications](https://www.researchgate.net/publication/331022012_Dynamic_light_scattering_DLS_technique_principle_theoretical_considerations_and_applications)
24. Prahasti AE, Yuanita T, Rahayu RP. Effect of Various Diluents on the Result of Particle Size Analyzing Process of Theobroma cacao Pod Husk Extract. *Malaysian J Med Heal Sci* 2023;19(8):76–78.
25. Asem M, Noraini Jimat D, Huda Syazwani Jafri N, Mohd Fazli Wan Nawawi W, Fadhillah Mohamed Azmin N, Firdaus Abd Wahab M. Entangled cellulose nanofibers produced from sugarcane bagasse via alkaline treatment, mild acid hydrolysis assisted with ultrasonication. *J King Saud Univ - Eng Sci* 2023;35(1):24–31.
26. Merais MS, Khairuddin N, Salehudin MH, Mobin Siddique MB, Lepun P, Chuong WS. Preparation and Characterization of Cellulose Nanofibers from Banana Pseudostem by Acid Hydrolysis: Physico-Chemical and Thermal Properties. *Membranes* (Basel) 2022;12(5).
27. Li J, Zha YN, Wang HM, Tian JN, Hou QX. Advances in lignin chemistry during pulping and bleaching. *Ind Crops Prod* [internet] 2025;229(April):121004. Available from: <https://doi.org/10.1016/j.indcrop.2025.121004>
28. Ischak NI, Fazriani D, Botutihe DN. Ekstraksi dan Karakterisasi Selulosa dari Limbah Kulit Kacang Tanah (*Arachys hypogaea* L.) Sebagai Adsorben Ion Logam Besi. *Jambura J Chem* 2021;3(1):27–36.
29. Gong J, Li J, Xu J, Xiang Z, Mo L. Research on cellulose nanocrystals produced from cellulose sources with various polymorphs. *RSC Adv* 2017;7(53):33486–33493.
30. Khumalo NL, Mohomane SM, Malevu TD, Motloung S V., Koao LF, Motaung TE. Effect of Acid Concentration on Structural, Thermal, and Morphological Properties of Cellulose Nanocrystals from Sugarcane Bagasse and Their Reinforcement in Poly(Furfuryl) Alcohol Composites. *Crystals* 2025;15(5):1–13.
31. Asrofi M, Abral H, Kasim A, et al. Isolation of Nanocellulose from Water Hyacinth Fiber (WHF) Produced via Digester-Sonication and Its Characterization. *Fibers Polym* 2018;19(8):1618–1625.
32. 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* [internet] 2020;28(5):1465–1474. Available from: <https://doi.org/10.1007/s10924-020-01695-x>
33. Putri GE, Arifani N, Wendari TP, et al. Nanocomposites of cellulose-modified cerium oxide nanoparticles and their potential biomedical applications. *Case Stud Chem Environ Eng* [internet] 2024;10(August):101013. Available from: <https://doi.org/10.1016/j.cscee.2024.101013>
34. Nugraha AB, Nuruddin A, Sunendar B. Isolasi Nanoselulosa Terdekarboksilasi dari Limbah Kulit Pisang Ambon Lumut dengan Metode Oksidasi. *J Sci Appl Technol* 2021;5(1):236.
35. Kusmono, Listyanda RF, Wildan MW, Ilman MN. Preparation and characterization of cellulose nanocrystal extracted from ramie fibers by sulfuric acid hydrolysis. *Heliyon* [internet] 2020;6(11):e05486. Available from: <https://doi.org/10.1016/j.heliyon.2020.e05486>
36. Hertiwi LR, Afni AN, Nur L, Sanjaya IGM. Ekstraksi dan Karakterisasi Nanoselulosa dari Limbah Kulit Bawang Merah. *J Educ Chem* 2020;2(1):77–81.
37. Radakisnin R, Majid MSA, Jamir MRM, Jawaid M, Sultan MTH, Tahir MFM. Structural, morphological and thermal properties of cellulose nanofibers from napier fiber (*Pennisetum purpureum*). *Materials* (Basel) 2020;13(18).