

DAFTAR PUSTAKA

- Adi, B. K., Joko, T., & Setiani, O. (2022). Life Cycle Assessment, Is it Beneficial for Environmental Sustainability? A Literature Review. *Jurnal Serambi Engineering*, 7(3). <https://doi.org/10.32672/jse.v7i3.4349>.
- Ahvenlampi, T., Rantanen, R., & Kortela, U. (2005). Visualizing Yield Profiles in Continuous Cooking Processes. *IFAC Proceedings Volumes*, 38(1), 219–224. <https://doi.org/10.3182/20050703-6-CZ-1902.01612>.
- Akinnawo, S. O. (2023). Eutrophication: Causes, consequences, physical, chemical and biological techniques for mitigation strategies. *Environmental Challenges*, 12, 100733.
- Antes, R., & Joutsimo, O. P. (2014). Effect of Modified Cooking on Chemical Composition of Pulps from *Eucalyptus globulus* and *Eucalyptus nitens*. *BioResources*, 10(1), 210–226. <https://doi.org/10.15376/biores.10.1.210-226>.
- APRIL. (2022). APRIL 2022 Sustainability Report.
- Atalla, R. H., Reiner, R. S., Houtman, C. J., & Springer, E. L. (2004). PULPING | New Technology in Pulping and Bleaching. In *Encyclopedia of Forest Sciences* (pp. 918–924). Elsevier. <https://doi.org/10.1016/B0-12-145160-7/00141-1>.
- Badan Standarisasi Nasional. 2016. SNI ISO 14040:2016 Manajemen Lingkungan - Penilaian Daur Hidup - Prinsip dan Kerangka Kerja.
- Bajpai, P. (2018). Biermann's Handbook of Pulp and Paper: Raw Material and Pulp Making (p. iii). Elsevier. <https://doi.org/10.1016/B978-0-12-814240-0.01001-6>.
- Ban, W., & Lucia, L. A. (2003). Enhancing Kraft Pulping Through Unconventional, Higher Sulfide - Containing Pretreatment Liquors - A Review.
- Bogdanski, B. E. C. (2014). The Rise and Fall of the Canadian Pulp and Paper Sector. *The Forestry Chronicle*, 90(06), 785–793. <https://doi.org/10.5558/tfc2014-151>
- Brigham, E. F., & Houston, J. F. (2009). Fundamentals of Financial Management (12th ed). South-Western Cengage Learning.
- Cabrera, M. N. (2017). Pulp Mill Wastewater: Characteristics and Treatment. In R. Farooq & Z. Ahmad (Eds.), *Biological Wastewater Treatment and Resource Recovery*. InTech. <https://doi.org/10.5772/67537>.
- Carvallo, A., Vega-Coloma, M. (2024). Environmental Life Cycle Assessment of Bleached Pulp from *Eucalyptus*: Chilean Case. *Sustainability* 16(21), 9236.
- Çiçekler, M., & Tutuş, A. (2023). Challenges in Paper Industry: Addressing Environmental, Economic, and Social Concerns.
- Collins, T., Gerday, C., & Feller, G. (2005). Xylanases, Xylanase Families and Extremophilic Xylanases. *FEMS Microbiology Reviews*, 29(1), 3–23. <https://doi.org/10.1016/j.femsre.2004.06.005>.
- Colodette, J. L., Gomide, J. L., Júnior, D. L., and Pedrazzi, C. (2007). Effect of Pulp Delignification Degree on Fiber Line Performance and Bleaching Effluent Load. *BioResources* 2(2):223–234.
- Dang, V. Q., & Nguyen, K. L. (2007). A Systematic Approach for Determination of Optimal Conditions for Multiple Extraction Cooking™ Kraft Pulping of *Eucalyptus nitens*. *Chemical Engineering Journal*, 133(1–3), 97–103. <https://doi.org/10.1016/j.cej.2007.02.012>.
- Dölle, K., & Honig, A. (2018). Laboratory Bleaching System for Oxygen and Ozone Bleaching. *Asian Journal of Chemical Sciences*, 4(2), 1–12. <https://doi.org/10.9734/AJOCS/2018/40620>.

FAO. 2022. FAOSTAT statistical database. In: FAO. Rome.
<https://www.fao.org/faostat/en>.

Finnveden, G., & Potting, J. (2014). Life Cycle Assessment. In: Wexler, P. (Ed). Encyclopedia of Toxicology (3 ed.) doi.org/10.1016/B978-0-12-386454-3.00627-8.

Ghose, A., & Chinga-Carrasco, G. (2013). Environmental Aspects of Norwegian Production of Pulp Fibres and Printing Paper. *Journal of Cleaner Production*, 57, 293–301. <https://doi.org/10.1016/j.jclepro.2013.06.019>.

Giatman, M. (2011). Ekonomi Teknik (3 ed.). Rajagrafindo Persada.

Ginni, G., Adishkumar, S., Rajesh Banu, J., & Yogalakshmi, N. (2014). Treatment of Pulp and Paper Mill Wastewater by Solar Photo-Fenton Process. *Desalination and Water Treatment*, 52(13–15), 2457–2464. <https://doi.org/10.1080/19443994.2013.794114>.

Gomide, J. L., Pimenta, L. R., Colodette, J. L., & Shin, N. H. (2007). Lo-Solids Kraft Pulping of Eucalyptus Wood.

GRI. (2022). GRI, Global Report Initiative. <https://www.globalreporting.org>.

Hart, P. W., Colson, G. W., Antonsson, S., & Hjort, A. (2011). Impact of Impregnation on High Kappa Number Hardwood Pulps. *BioResources*, 6(4), 5139–5150. <https://doi.org/10.15376/biores.6.4.5139-5150>.

Hartler, N. (1978). Extended Delignification in Kraft Cooking – A New Concept. *Sven. Papperstidn.* 81(15), 483–484.

Kallrath, J., Rebennack, S., Kallrath, J., & Kusche, R. (2014). Solving Real-World Cutting Stock-Problems in The Paper Industry: Mathematical Approaches, Experience and Challenges. *European Journal of Operational Research*, 238(1), 374–389. <https://doi.org/10.1016/j.ejor.2014.03.027>.

Kasurinen, J.-A. (2015). Developing a Tool for Techno-Economic Analysis of Pulp Mill Integrated Biorefineries.

Kementerian Lingkungan Hidup dan Kehutanan. (2021). Pedoman Penyusunan Laporan Penilaian Daur Hidup (LCA).

Laakso, S. (2008). Modeling of Chip Bed Packing in a Continuous Kraft Cooking Digester.

Laghi, L., Nippes, G., and Urbano, F. (2023). How to Make Money from Trees: Reassessing Coverage of Pulp and Paper Companies. *Equity Research: Pulp and Paper*.

Lobo, L. A., & Bolton, T. S. (2011). Brownstock Washing Fundamentals: Enhancing Drainage Through Chemistry.

MacLeod, M. (2007). The Top Ten Factors in Kraft Pulp Yield. *Paperi Ja Puu*, 4.

Marcoccia, B., Miele, J., Chasse, F., and Hanninen, E. (1997). Recent Developments in the Technology of Continuous Pulping System. *Appita Annual General Conference* 1, 225–236.

Mathews, S. L., Pawlak, J., & Grunden, A. M. (2015). Bacterial Biodegradation and Bioconversion of Industrial Lignocellulosic Streams. *Applied Microbiology and Biotechnology*, 99(7), 2939–2954. <https://doi.org/10.1007/s00253-015-6471-y>.

M’hamdi, A. I., Kandri, N. I., Zerouale, A., Blumberg, D., & Gusca, J. (2017). Life Cycle Assessment of Paper Production from Treated Wood. *Energy Procedia*, 128, 461–468. <https://doi.org/10.1016/j.egypro.2017.09.031>.

Monte, M. C., Fuente, E., Blanco, A., & Negro, C. (2009). Waste Management from Pulp and Paper Production in the European Union. *Waste Management*, 29(1), 293–308. <https://doi.org/10.1016/j.wasman.2008.02.002>.

- Nematchoua, M.K. (2022). Strategy for Studying Acidification and Eutrophication Potentials, a Case Study of 150 Countries. *J* 5(1), 150-165.
- Omer, S. H., Khider, T. O., Elzaki, O. T., Mohieldin, S. D., & Shomeina, S. K. (2019). Application of Soda-AQ Pulping to Agricultural Waste (Okra Stalks) from Sudan. *BMC Chemical Engineering*, 1(1), 6. <https://doi.org/10.1186/s42480-019-0005-9>.
- Perrin, J., Pouyet, F., Lachenal, D. (2015). Totally Chlorine-Free Bleaching Sequences for Paper and Dissolving Eucalypt Pulps. In: Proceeding of 7th ICEP Vitoria (Brazil).
- Phillips, R. B. (2019). Impact of Kraft Mill Chemistry on Economics: A Model-Based Approach to Optimizing Mill Profitability.
- Pokhrel, D., & Viraraghavan, T. (2004). Treatment of Pulp and Paper Mill Wastewater—A Review. *Science of The Total Environment*, 333(1–3), 37–58. <https://doi.org/10.1016/j.scitotenv.2004.05.017>.
- Polat, O., & Mujumdar, A. S. (2006). Handbook of Industrial Drying.
- Priyo, M. (2012). *Ekonomi Teknik*. Perpustakaan Nasional Republik Indonesia (PNRI).
- Rahman, M., Avelin, A., & Kyprianidis, K. (2020). A Review on the Modeling, Control and Diagnostics of Continuous Pulp Digesters. *Processes*, 8(10), 1231. <https://doi.org/10.3390/pr8101231>.
- Rowell, R., Pettersen, R., & Tshabalala, M. (2012). Handbook of Wood Chemistry and Wood Composites, Second Edition (pp. 33–72). CRC Press. <https://doi.org/10.1201/b12487-5>.
- Rullifank, K. F., Roefinal, M. E., Kostanti, M., Sartika, L., & Evelyn. (2020). Pulp and Paper Industry: An Overview on Pulping Technologies, Factors, and Challenges. *IOP Conference Series: Materials Science and Engineering*, 845(1), 012005. <https://doi.org/10.1088/1757-899X/845/1/012005>.
- Santos, R. B., & Hart, P. W. (2014). Brownstock Washing: A Review of The Literature. *TAPPI Journal*, 13(1), 9–19.
- Shrotri, A., Kobayashi, H., & Fukuoka, A. (2017). Catalytic Conversion of Structural Carbohydrates and Lignin to Chemicals. In *Advances in Catalysis* (Vol. 60, pp. 59–123). Elsevier. <https://doi.org/10.1016/bs.acat.2017.09.002>.
- Simamora, J., Wiloso, E. I., & Yani, M. (2023). Life Cycle Assessment of Paper Products Based on Recycled and Virgin Fiber. *Global Journal of Environmental Science and Management*, 9(Special Issue (Eco-Friendly Sustainable Management)). <https://doi.org/10.22034/gjesm.2023.09.SI.07>.
- Simão, L., Hotza, D., Raupp-Pereira, F., Labrincha, J. A., & Montedo, O. R. K. (2018). Wastes from Pulp and Paper Mills—A Review of Generation and Recycling Alternatives. *Cerâmica*, 64(371), 443–453. <https://doi.org/10.1590/0366-69132018643712414>.
- Sixta, H. (Ed.). (2006). Handbook of Pulp. Wiley-VCH.
- Sjöblom, K., Mjöberg, J., & Hartler, N. (1983). Extended Delignification in the Kraft Cooking Through Improved Selectivity. *Paperi Puu*, 65(4), 227-240.
- Sousa, A. M., Pinto, I. S. S., Machado, L., Gando-Ferreira, L., & Quina, M. J. (2023). Sustainability of Kraft Pulp Mills: Bleaching Technologies and Sequences With Reduced Water Use. *Journal of Industrial and Engineering Chemistry*, 125, 58–70. <https://doi.org/10.1016/j.jiec.2023.05.033>.
- Stanley, D., & Marcoccia, B. (2001). 2001 Tappi Journal Peer Reviewed Paper.
- Sticklen, M. (2008). Plant Genetic Engineering For Biofuel Production: Towards Affordable Cellulosic Ethanol, 433–443. <https://doi.org/10.1038/nrg2336>.

- Sumarni, M., & Soeprihanto, J. (2010). Pengantar Bisnis (Dasar-Dasar Ekonomi Perusahaan, ed. 5. Liberty
- Teder, A., & Olm, L. (1981). Extended Delignification by Combination of Modified Kraft Pulping and Oxygen Bleaching. *Paperi Puu*, 63(4a), 315-326.
- Tortajada, C. (2020). Contributions of Recycled Wastewater to Clean Water and Sanitation Sustainable Development Goals. *Npj Clean Water*, 3(1), 22. <https://doi.org/10.1038/s41545-020-0069-3>.
- Tran, H., & Vakkilainen, E. K. (2016). The Kraft Chemical Recovery Process.
- Turton, R. (Ed.). (2012). Analysis, Synthesis, and Design of Chemical Processes (4th ed). Prentice Hall.
- Valmet (2015). Latest Developments in Fiberline Technology.
- Vogtländer, J. G. (2010). LCA-based Assessment of Sustainability: The Eco-costs/Value Ratio (EVR) (1st ed). VSSD.
- Walkush, K., & Gustafson, R. B. (2002). Application of Pulping Models to Investigate the Performance of Commercial Continuous Digesters.
- Wheeler, S. A., Nauges, C., & Grafton, R. Q. (2023). Water pricing, costs and markets: Technical Report for the Global Commission on the Economics of Water. OECD Environment Directorate Climate, Biodiversity and Water Division.
- Zainuri, S. T. (2021). Ekonomi Teknik. CV. Jasa Surya.
- Zhang, X., Li, L., & Xu, F. (2022). Chemical Characteristics of Wood Cell Wall with an Emphasis on Ultrastructure: A Mini-Review. *Forests*, 13(3), 439. <https://doi.org/10.3390/f13030439>.
- Zhao, Q., Ding, S., Wen, Z., Toppinen, A. (2019). Energy flows and carbon footprint in the forestry-pulp and paper industry. *Forests*. 10(9).