

## REFERENCES

- Adsul, M. G., Ghule, J. E., Singh, R., Shaikh, H., & Bastawde, K. B. (2004). Polysaccharides from bagasse: applications in cellulase and xylanase production, 57, 67–72. <https://doi.org/10.1016/j.carbpol.2004.04.001>
- Estates, I. (n.d.). 1 ) Industrial Effluent Standards for Industrial Plants and Industrial Estates 1 ) Industrial Effluent Standards for Industrial Plants and Industrial Estates ( Cont ' d ), 65–90.
- Gao, X., Kumar, R., & Wyman, C. E. (2014). Fast hemicellulose quantification via a simple one-step acid hydrolysis. *Biotechnology and Bioengineering*, 111(6), 1088–1096. <https://doi.org/10.1002/bit.25174>
- Kaur, R., Uppal, S. K., & Sharma, P. (2018). Production of Xylooligosaccharides from Sugarcane Bagasse and Evaluation of Their Prebiotic Potency In Vitro. *Waste and Biomass Valorization*, 0(0), 1–9. <https://doi.org/10.1007/s12649-018-0266-1>
- Klemm, D. , Philipp, B. , Heinze, T. , Heinze, U. and Wagenknecht, W. (2004). General Considerations on Structure and Reactivity of Cellulose: Section 2.1–2.1.4. In *Comprehensive Cellulose Chemistry* (eds D. Klemm, B. Philipp, T. Heinze, U. Heinze and W. Wagenknecht). doi:[10.1002/3527601929.ch2a](https://doi.org/10.1002/3527601929.ch2a)
- Kudakasseril Kurian, J., Garipey, Y., Lefsrud, M., Orsat, V., Seguin, P., Yaylayan, V., & Raghavan, G. S. V. (2014). Experimental Study on Calcium Hydroxide-Assisted Delignification of Hydrothermally Treated Sweet Sorghum Bagasse. *International Journal of Chemical Engineering*, 2014. <https://doi.org/10.1155/2014/684296>
- Kurian, J. K. (2015). *Fractionation of Sweet Sorghum Bagasse Using Steam-Assisted and Microwave-Assisted Methods*. McGill University.
- Li, H., Li, Z., Peng, P., She, D., Xu, Q., & Zhang, X. (2015). Characteristics of hemicelluloses obtained from sweet sorghum based on successive extractions. *Journal of Applied Polymer Science*, 132(46), 1–9. <https://doi.org/10.1002/app.42790>
- Lingkungan, M., Dan, H., & Republik, K. (2014). *Www.Pelatihanlingkungan.Com*, 2013(1726). <https://doi.org/10.1148/radiol.10091262>
- Morales-Flórez, V., Santos, A., Romero-Hermida, & Esquivias, L. (2011). *Hydration and Carbonation Reactions of Calcium Oxide by Weathering: Kinetics and Changes in the Nanostructure*.

- Network, G. A. I. (2014). Food Service - Hotel Restaurant Institutional. *Global Agricultural Information Network*.
- Office of Research and Development, & U.S. Environmental Protection Agency. (2002). Onsite Wastewater Treatment Systems Technology Fact Sheet 4 Effluent Disinfection Processes. *USEPA Onsite Wastewater Treatment Systems Manual i Systems Manual Systems Manual Systems Manual Wastewater Treatment*, (February), 1–15. Retrieved from [https://www.epa.gov/sites/production/files/2015-06/documents/2004\\_07\\_07\\_septics\\_septic\\_2002\\_osdm\\_all.pdf](https://www.epa.gov/sites/production/files/2015-06/documents/2004_07_07_septics_septic_2002_osdm_all.pdf)
- Oguntade, T. O., & Adekunle, A. A. (2010). Preservation of seeds against fungi using wood-ash of some tropical forest trees in Nigeria. *African Journal of Microbiology Research*, 4(4), 279–288.
- Pelig-Ba, K. (2009). Effect of Ash, KOH and Millet on the Fermentation of Parkia biglobosa Seeds to Form a Condiment. *Pakistan Journal of Nutrition*. Asian Network for Scientific Information. <https://doi.org/10.3923/pjn.2009.1548.1554>
- Peloewetse, E., Thebe, M. M., Ngila, J. C., & Ekosse, G. E. (2008). Inhibition of growth of some phytopathogenic and mycotoxigenic fungi by aqueous extracts of Combretum imberbe ( Wawra ) wood. *Journal of Biotechnology*, 7(16), 2934–2939. <https://doi.org/10.4314/ajb.v7i16.59204>
- Pitman, R. M. (2006). Wood ash use in forestry - A review of the environmental impacts. *Forestry*, 79(5), 563–588. <https://doi.org/10.1093/forestry/cpl041>
- Public Health Service. (2002). Toxic Substances Portal - Sodium Hydroxide, (April), 2–3. Retrieved from <http://www.atsdr.cdc.gov/toxfaqs/tf.asp?id=248&tid=45%5Cnhttp://www.atsdr.cdc.gov/toxfaqs/tfacts178.pdf>
- Rahman, M. M., Akbar, M. A., Islam, K. M. S., Khaleduzzaman, A. B. M., & Bostami, A. B. M. R. (2009). Nutrient Digestibility and Growth Rate of Bull Calves Fed Rice Straw Treated With Wood Ash Extract. *Bang. J. Anim. Sci.*, 38(1&2), 42–52.
- Salam, A., Venditti, R. A., Joel, J., El-tahlawy, K., & Ayoub, A. (2012). EXTRACTION AND UTILIZATION OF HEMICELLULOSES FOR NEW BIOMATERIAL EXTRACTION AND UTILIZATION OF HEMICELLULOSES FOR NEW BIOMATERIAL APPLICATIONS, (November).
- Scheller, H. V., & Ulvskov, P. (2010). Hemicelluloses. *Annual Review of Plant Biology*, 61(1), 263–289. <https://doi.org/10.1146/annurev-arplant-042809-112315>

- Serafimova, E., Mladenov, M., Mihailova, I., & Pelovski, Y. (2011). Study on the Characteristics of Waste Wood Ash. *Pelovski Journal of the University of Chemical Technology and Metallurgy*, 46(January), 31–34.
- Singh, A. N., & Singh, J. S. (1999). *Biomass, net primary production and impact of bamboo plantation on soil redevelopment in a dry tropical region. Forest Ecology and Management* (Vol. 119).[https://doi.org/10.1016/S0378-1127\(98\)00523-4](https://doi.org/10.1016/S0378-1127(98)00523-4)
- USEPA. (1992). *R. E. D. FACTS Sodium Hydroxide*.
- Vian, M. A., Cravotto, G., & Chemat, F. (2012). Green Extraction of Natural Products: Concept and Principles. *International Journal of Molecular Sciences*.  
<https://doi.org/10.3390/ijms13078615>
- Wei, L., Yan, T., Wu, Y., Chen, H., & Zhang, B. (2018). Optimization of alkaline extraction of hemicellulose from sweet sorghum bagasse and its direct application for the production of acidic xylooligosaccharides by *Bacillus subtilis* strain MR44. *PLoS ONE*, 13(4), 1–15.  
<https://doi.org/10.1371/journal.pone.0195616>
- Wen, J., Xiao, L., Sun, Y., Sun, S., Xu, F., & Sun, R. (2011). Comparative study of alkali-soluble hemicelluloses isolated from bamboo ( *Bambusa rigida* ), 346, 111–120. <https://doi.org/10.1016/j.carres.2010.10.006>
- Xu, J. D., Li, M. F., & Sun, R. C. (2018). Successive fractionations of hemicelluloses and lignin from sorghum stem by sodium hydroxide aqueous solutions with increased concentrations. *BioResources*, 13(2), 2356–2373.  
<https://doi.org/10.15376/biores.13.2.2356-2373>
- Siegmund, Walter. (2006). Campfire scar on *Abies concolor*, *Pinus benthamiana*, *Pinus lambertiana*, etc. Accessed from [https://en.wikipedia.org/wiki/Wood\\_ash#/media/File:Campfire\\_scar\\_08319.JPG](https://en.wikipedia.org/wiki/Wood_ash#/media/File:Campfire_scar_08319.JPG) on July 7<sup>th</sup> 2019.