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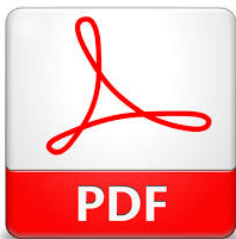
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Abstract

Lignocellulosic biomass is an abundant renewable resource which amounts to 1.3 billion tonnes per year.



Keyword: *Xylooligosaccharides, Rice husk, Lignocellulosic biomass, NaOH pretreatment*

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References:

- [1] U. C. Malavasi, A. S. Davis, and M. de M. Malavasi, "Lignin in woody plants under water stress: A review," *Journal of Applied Botany*, vol. 10, pp. 1-10, 2018.
- [2] "Rice Husk Gasifier Experiment as Biofuel Source in UiTM Pulau Pinang," *Journal of Engineering and Technology*, vol. 10, pp. 1-10, 2018.
- [3] F. Santos, P. Eichler, J. H. De Queiroz, and F. Gomes, "Production of second-generation ethanol from rice husk," *Biomass and Bioenergy*, vol. 10, pp. 1-10, 2018.
- [4] O. M. Terrett and P. Dupree, "Covalent interactions between lignin and hemicelluloses in plant secondary cell walls," *Journal of Applied Botany*, vol. 10, pp. 1-10, 2018.
- [5] C. R. Soccol et al., "Lignocellulosic bioethanol: Current status and future perspectives," in *Biomass, Bioenergy and Biorefineries*, pp. 1-10, 2018.
- [6] S. Mishra, P. K. Singh, S. Dash, and R. Pattnaik, "Microbial pretreatment of lignocellulosic biomass for ethanol production," *Biomass and Bioenergy*, vol. 10, pp. 1-10, 2018.
- [7] R. Ramaraj and Y. Unpaprom, "Optimization of pretreatment condition for ethanol production from Cyperus rotundus," *Biomass and Bioenergy*, vol. 10, pp. 1-10, 2018.
- [8] P. A. R. Utoro, M. Alwi, J. E. Witoyo, B. D. Argo, R. Yulianingsih, and Muryanto, "Impact of NaOH Concentration on Ethanol Production from Rice Husk," *Biomass and Bioenergy*, vol. 10, pp. 1-10, 2018.
- [9] S. Harun and S. K. Geok, "Effect of sodium hydroxide pretreatment on rice straw composition," *Indian Journal of Applied Botany*, vol. 10, pp. 1-10, 2018.

[10] A. Nooraziah and V. J. Tiagrajah, "A study on regression model using response surface methodology"

[11] M. Y. Noordin, V. C. Venkatesh, S. Sharif, S. Elting, and A. Abdullah, "Application of response surface methodology"

[12] M. N. Salimi, S. E. Lim, A. H. M. Yusoff, and M. F. Jamlos, "Conversion of rice husk into fermentable sugars"

[13] L. Tan, Y. Q. Tang, H. Nishimura, S. Takei, S. Morimura, and K. Kida, "Efficient production of bioethanol from rice husk"

[14] S. Shojaei, M. A. H. Ardakani, H. Sodaieezadeh, M. jafari, and S. fakhreddin afzali, "Simultaneous optimization of sugar production and ethanol yield from rice husk"