



DAFTAR PUSTAKA

- Acharjee, T., 2010, Thermal pretreatment options for lignocellulosic biomass, Thesis: University of Nevada.
- Basu, P., 2010, "Biomass gasification and pyrolysis, practical design", *El sevier inc*, Oxford
- Behrendt, F., Neubauer, Y., Oeverman, M., Wilmes, B., Zobel, N., 2008, "Direct liquefaction of biomass", *Chem. Eng. Technol*, 31, No. 5, 667–677
- Benjamin, M. 2002 , "Water chemistry" , 1st edition . New York : McGraw Hill
- Berlian, V.A., Nur, Rahayu. E., 1995, "Jenis dan prospek bisnis bambu"
- Chang, C.C., Chen, C.P., Yang, C.S., Chen, Y.H., Huang, M., Chang, C.Y., Shie, J.L., Yuan, M.H., Chen, Y.H., Ho, C., Li, K., Yang, M.Y., 2016, "Conversion of waste bamboo chopsticks to bio-oil via catalytic hydrothermal liquefaction using K_2CO_3 ", *Sustainable Environment Research*, 26, 262-267.
- Chornet, E., and Overend, R.P., 1985, "Biomass liquefaction: an overview. In: fundamentals of thermochemical biomass conversion", *Applied Science*, 967.
- CIFOR untuk Indonesia, 2012, "Kemitraan untuk hutan dan manusia", Pusat Penelitian Kehutanan International
- Couce, A.A., 2016, "Reaction mechanism and multi scale modelling of lignocellulosic biomass pyrolysis", *Process in Energy and Combustion Science*, 53, 41 – 79
- Couto, E.A., Pinto. F., Varela. F., Reis. A., Costa. P., Calijuli, M.L., 2017, "Hydrothermal liquefaction of biomass produced from domestic sewage treatment in high-rate ponds", *Renewable energy*, Vol.118, pp. 644 – 653.
- Dimitriadis, A. and Bezergianni, S. 2016. "Hydrothermal liquefaction of various biomass and waste feedstocks for biocrude production: A state of the art review". *Renewable and Sustainable Energy Reviews*. 68, 113-125.



- Garote, G., Dominguez, H., Parajo, J.C., 1999, "Hydrothermal processing of lignocellulosic materials, *Holzals Roh-Und Werkstoff*, 57, 191.
- Gollakota, A.R.K., Kishore, N., Gu, S., 2017, "A Review on hydrothermal liquefaction of biomass", *Renewable and Sustainable Energy Reviews*
- Hardi, F., Makela, M ., Yoshikawa, K ., 2017 , "Non-catalytic hydrothermal liquefaction of pine sawdust using experimental design: Material balances and product analysis" , *Applied Energy* , 033 , 1 – 7
- Hrncic, M., Kravanja, G., and knez, Z., 2016, "Hydrothermal treatment of biomass for energy and chemicals", *Energy*, 11, 1312 – 1322
- Hu, F., Jung, S., Ragauskas, A, 2012, " Pseudo-lignin formation and its impact on enzymatic hydrolysis" , *Bioresour. Technol*, 117, 7-12.
- Indrawan, B., Prawisudah, P., and Yoshikawa, K., 2012, "Combustion characteristics of chlorine-free solid fuel produced from municipal solid waste by hydrothermal processing", *Energies*, 5, 4446-4461.
- Jin, F.M, Zhou, Z.Y, Enomoto, H, Moriya, T, Higashijima, H, 2004, "Conversion mechanism of cellulosic biomass to lactic acid in subcritical water and acid- base catalytic effect of subcritical water", *Chem. Lett*, 33(2), 126-127.
- Jung, S., Foston, M., Sullards, M.C., Ragauskas, A.J, 2010, "Surface characterization of dilute acid pretreated populus deltoides by ToF-SIMS", *Energ. Fuel*, 24(2), 1347-1357
- Kalderis, D., Kotti, M.S., Mendez, A., Gasco, G., 2014, "Characterization of hydrochars produced by hydrothermal carbonization of rice husk", *Solid earth*, 5, pp. 477 – 483.
- Karagoz, S., Bhaskar, T., Muto, A., Sakata, Y., and Uddin, M. A. 2004. "Low temperature hydrothermal of biomass: Effect of reaction parameters on products and boiling point distributions". *Energy and Fuels*. 18, 234-241.



- Kasmudjo, 2012, “Mebel dan kerajinan: Teori dasar dan aplikasi”, Fakultas Kehutanan UGM. Cakrawala Media, Yogyakarta
- Kasmudjo. 2010. Teknologi hasil hutan. Cakrawala Media. Yogyakarta.
- Kieseler, S., Neubauer, Y., Zobel, N., 2013, “ Ultimate and proximate correlations for estimating the higher heating value of hydrothermal solid”, 27, pp. 908-918
- Kruse, A., Dinjus, E., 2001, “ Hot compressed water as reaction medium and reactant”, J. Supercrit. Fluid, 41. 368 – 369.
- Kumar, M., Oyedun A.O., A,Kumar , 2017 , “A Review on the current status of various hydrothermal technologies on biomass feedstock”, Renewable and Sustainable Energy Reviews, 10, 1 – 2
- Libra, J.A., Ro, K.S., Kammann, C., Funke, A., Berge, N.D., Neubauer, Y., Titirici, M.M., Fuhner, C., Bens, O., Kern, J., Emmerich, K.H., 2011, “Hydrothermal Carbonization of Biomass Residual : A comparative review of the chemistry , processes and Application of Wet and Dry Pyrolysis”, Biofuel. 2(1), pp. 89-124
- Mansur, D ., Simanungkalit, S.P., Rinaldi, N., dan Abimanyu, H., 2016.”Hydrothermal Liquefaction of Black Liquor Into Platform Chemicals”. Teknologi Indonesia. 39. 1 -7
- Morisco, 2007, “Pemberdayaan bambu untuk kesejahteraan rakyat dan kesejahteraan lingkungan”.
- Nakason, K., Panyapinyopol, B., Kanokkantapong, V., Empikul, N.V., Kraithong, W., Pavasant, P., 2017, “Characteristic of Hydrochar and Hydrothermal Liquid Products from Hydrothermal Carbonization of Corncob, Biomass cov.Bioref.
- Oktaviananda, C, 2017, “Pengaruh Temperatur Dan Komposisi Campuran Biomassa Terhadap Kualitas *Hydrochar* pada *Hydrothermal Treatment* Biomassa Serbuk Gergaji Kayu Jati dan Serbuk Tongkol Jagung”, Laporan Tesis, Departemen Teknik Kimia, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta.



- Panshin, A. J., Zeew, C.D., 1980, “Textbook of Wood Technology”, McGraw-Hill Inc. N.Y., 723
- Parikh, J., Channiwalla, S.A., Ghosal, G.K., 2004, “A correlation for calculating HHV from proximate analysis of solid fuels, *Fuel*, 84, pp. 487 – 494.
- Park, Y.K., Lee, K., Kim, D., 2018 “Characterization hydrochar of algal biomass for producing solid though hydrothermal carbonization”, *Bioresource Technology*, Vol.258, pp. 119 – 124.
- Pedersen, T. H., 2016, “Hydrothermal Liquefaction of Biomass and Model Compounds. Aalborg Universitetsforlag. (Ph.d.-serien for Det Teknisk-Naturvidenskabelige Fakultet, Aalborg Universitet)”, Denmark.
- Peterson, A.A., Vogel, F., Lachance, R.P., Froling, M., Michael, J.A., Tester. J.W., 2008, *Thermochemical Biofuel Production in Hydrothermal Media: A Review of Sub and supercritical Water Technologies*, *Energy and Environmental Science*, 1. 32 – 65.
- Prasodjo, E ., 2016, *Outlook Energi Indonesia*, terbitan ke-1 , Jakarta selatan : Dewan Energi Indonesia.
- Prinsen, P., Gutiérrez, A., Rencoret, J., Nieto, L., Jiménez-Barbero, J., Burnet, A., Petit-Conil, M., Colodette, J.L., Martínez, A.T., Del Río, J.C, 2012, “Morphological characteristics and composition of lipophilic extractives and lignin in Brazilian woods from different eucalypt hybrids”, *Ind. Crop. Prod*, 36, 572-583.
- Rahmawati, R.F., 2016, “Pengaruh residence time dan rasio biomassa-air pada *hydrothermal treatment*”, Laporan tesis, Departemen Teknik Kimia, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta
- Reza, M.T., 2011, *Hydrothermal carbonization of lignocellulose biomass*, Tesis: University of Nevada.



- Reza, M.T., Lynam, J.G., Uddin, M.H., Coronella., C.J., 2013, “ Hydrothermal carbonization : fate of inorganics”, *Biomass and Energy*, 49, pp. 86 – 94.
- Romero, M.M ., Vogel.F ., and Wokaun. A., 2014, “Liquefaction of wood in how compressed water Part 1 – Experimental results”, *Chemical Engineering Science*, 109, 112 – 122
- Sasaki, M., Kabyemela, B., Malaluan, R., Hirose, S., Takeda, N., Adschiri, T., Arai, K, 1998, “Cellulose hydrolysis in subcritical and supercritical water”, *J. Supercrit. Fluid*,13, 261-268.
- Seehra, M.S., Popp, B.V., Goulay, F., Pyapalli, S.K., Gullion, T., Poston, J, 2014, “Hydrothermal treatment of microcrystalline cellulose under mild conditions: Characterization of solid and liquid-phase products” *Cellulose*, 1,4483-4495.
- Seng, O.D, 1990, “ Berat jenis dari jenis-jenis kayu indonesia dan pengertian beratnya kayu untuk keperluan praktek”, *Pusat Penelitian dan Pengembangan Hasil Hutan*, Bogor.
- Sevilla, M., Agullo, J.A.M., Fuertes, A.B., 2011,”Hydrothermal carbonization of biomass as a route for the sequestration of CO₂: chemical and structural properties of the carbonized products”, *Biomass and Energy*, 35, 3152 – 3159.
- Simanungkalit, S.P., Mansur, D., dan Fitriady, M.A. 2016, ‘*Hydrothermal liquefaction limbah distilasi bioetanol generasi-2*’, *Reaktor*,16(2), 49-56.
- Sinag, A., Gulbay, S., Uskan, B., and Gullu, M., 2009, “Comparative studies of intermediates produced from hydrothermal treatment of sawdust and cellulose”, *Journal of Supercritical Fluids*, 50.121 – 127.
- Sun, T.S, Wang, K, Yang, G.H, Yang, H.Y, Xu, F, 2004,”Hydrothermal treatment and enzymatic saccharification of corncobs”, *Bioresour*, 9(2), 3000-3013.
- Tekin, K., Karagoz, S., Bektas S., 2014 , “A review of hydrothermal biomass processing”, *Renewable and Sustainable Energy*, 40, 5-6



- Vassilev, S.V., Baxter, D., Andersen, L.K., Vassileva, C.G., 2010, “An overview of the chemical composition of biomass, Fuel, 89, 913 – 933.
- Xiao, L.P, Lin, Z, Peng, W.X, Yuan, T.Q, Xu, F, Li, N.C, Tao, Q.S, Xiang, H, Sun, R.C, 2014, “ Unraveling the structural characteristics of lignin in hydrothermal pretreated fibers and manufactured binderless boards from Eucalyptus grandis”, *Sustain. Chem. Process*, 9(2), 1-12
- Xiao, X., Bian, J., Peng, X.P., Xu, H., Xiao, B., Sun, R.C, 2013, “Autohydrolysis of bamboo (*Dendrocalamus giganteus* Munro) culm for the production of xylo-oligosaccharides”, *Bioresour. Technol*, 138, 63-70.
- Yu, F., Ruan, P. Chen, S. Deng, Y. Liu, and X. Lin, 2007, Liquefaction of corn cobs with supercritical water treatment”, *American Society of Agricultural and Biological Engineers*, 50(1), 175-180.
- Yuliansyah, A.T., T. Hirajima, S. Kumagai, and K. Sasaki, 2010, “Production of solid biofuel from agricultural wastes of the palm oil industry by hydrothermal treatment”, *Waste Biomass Valor*, 1, 395-405.
- Zhang, Y., 2010, “Hydrothermal liquefaction to convert biomass into crude Oil”, *Biofuels from agriculture wastes and byproducts*, Blackwell.