DAFTAR PUSTAKA

Acharjee, T.C., Coronella, C.J., dan Vasquez, V.R., 2011, Effect of thermal pretreatment on equilibrium moisture content of lignocellulosic biomass, *Bioresour. Technol.*, 102, 4849–4854.

Ashmead, H.D., Ashmead, H.H., Miller, G.W., dan Hsu, H.H., 1986, Foliar feeding of plants with amino acid chelates., *Foliar Feed. plants with Amin. acid chelates.*,.

Astuti, P., Idiawati, N., dan Destiarti, L., 2015, Validasi Metode Pengukuran Kadar Asam Humat Hasil Ekstraksi Kalium Hidroksida dengan Spektrofotometri Ultraviolet, *J. Kim. Khatulistiwa*, 5, .

Bartels, T., 2003, Variations in the morphology, distribution, and arrangement of feathers in domesticated birds, *J. Exp. Zool. part B Mol. Dev. Evol.*, 298, 91–108.

Boguta, P. dan Sokolowska, Z., 2013, Interactions of humic acids with metals, *Acta Agrophysica. Monogr.*, 2, .

Botelho, C.M., Padrão, J., Fernandes, M., Dias, N.M., dan Teixeira, J.A., 2017, Antimicrobial peptides from agro-industrial waste a key to new antibiotics,.

Brandelli, A., Sala, L., dan Kalil, S.J., 2015, Microbial enzymes for bioconversion of poultry waste into added-value products, *Food Res. Int.*, 73, 3–12.

Chang, R.R., Mylotte, R., Hayes, M.H.B., Mclnerney, R., dan Tzou, Y.M., 2014, A comparison of the compositional differences between humic fractions isolated by the IHSS and exhaustive extraction procedures, *Naturwissenschaften*, 101, 197–209.

Coward-Kelly, G., Agbogbo, F.K., dan Holtzapple, M.T., 2006, Lime treatment of keratinous materials for the generation of highly digestible animal feed: 2. Animal hair, *Bioresour. Technol.*, 97, 1344–1352.

Giovanela, M., Crespo, J.S., Antunes, M., Adamatti, D.S., Fernandes, A.N., Barison, A., Da Silva, C.W.P., Guégan, R., Motelica-Heino, M., dan Sierra, M.M.D., 2010, Chemical and spectroscopic characterization of humic acids extracted from the bottom sediments of a Brazilian subtropical microbasin, *J. Mol. Struct.*, 981, 111–119.

Gurav, R.G. dan Jadhav, J.P., 2013, A novel source of biofertilizer from feather biomass for banana cultivation, *Environ. Sci. Pollut. Res.*, 20, 4532–4539.

Hitzl, M., Corma, A., Pomares, F., dan Renz, M., 2015, The hydrothermal carbonization (HTC) plant as a decentral biorefinery for wet biomass, *Catal. Today*, 257, 154–159.

Kobayashi, N., Okada, N., Hirakawa, A., Sato, T., Kobayashi, J., Hatano, S., Itaya, Y., dan Mori, S., 2009, Characteristics of solid residues obtained from hot-compressed-water treatment of woody biomass, *Ind. Eng. Chem. Res.*, 48, 373–379.

Koesnarpadi, S., Santosa, S.J., Siswanta, D., dan Rusdiarso, B., 2015, Synthesis and Characterizatation of Magnetite Nanoparticle Coated Humic Acid

(Fe3O4/HA), *Procedia Environ. Sci.*, 30, 103–108.

Kowalewska, A. dan Nowacka, M., 2020, Supramolecular Interactions in Hybrid Polylactide Blends—The Structures, Mechanisms and Properties, *Molecules*, 25, 3351.

Kshetri, P., Roy, S.S., Chanu, S.B., Singh, T.S., Tamreihao, K., Sharma, S.K., Ansari, M.A., dan Prakash, N., 2020, Valorization of chicken feather waste into bioactive keratin hydrolysate by a newly purified keratinase from Bacillus sp. RCM-SSR-102, *J. Environ. Manage.*, 273, 111195.

Lee, Y.S., Phang, L.-Y., Ahmad, S.A., dan Ooi, P.T., 2016, Microwave-alkali treatment of chicken feathers for protein hydrolysate production, *Waste and biomass valorization*, 7, 1147–1157.

Li, R. dan Shahbazi, A., 2015, A Review of Hydrothermal Carbonization of Carbohydrates for Carbon Spheres Preparation, *Trends Renew. Energy; Vol 1, No 1 (2015)DO - 10.17737/tre.2015.1.1.009* ,.

Lynam, J.G., Coronella, C.J., Yan, W., Reza, M.T., dan Vasquez, V.R., 2011, Acetic acid and lithium chloride effects on hydrothermal carbonization of lignocellulosic biomass, *Bioresour. Technol.*, 102, 6192–6199.

Malghani, S., Gleixner, G., dan Trumbore, S.E., 2013, Chars produced by slow pyrolysis and hydrothermal carbonization vary in carbon sequestration potential and greenhouse gases emissions, *Soil Biol. Biochem.*, 62, 137–146.

Piccolo, A.B.T.-A. in A., 2002, The supramolecular structure of humic substances: A novel understanding of humus chemistry and implications in soil science,. Academic Press, hal. 57–134.

Prasasti, D., Juari, S., dan Sudiono, S., 2014, KINETIKA ADSORPSI-REDUKSI ION Au (III) PADA ASAM HUMAT HASIL ISOLASI DARI TANAH GAMBUT RAWA PENING, *Pharmaciana*, 3, 15–22.

Rangaraj, V.M., Edathil, A.A., Kadirvelayutham, P., dan Banat, F., 2020, Chicken feathers as an intrinsic source to develop ZnS/carbon composite for Li-ion battery anode material, *Mater. Chem. Phys.*, 248, 122953.

Reza, M.T., Uddin, M.H., Lynam, J.G., dan Coronella, C.J., 2014, Engineered pellets from dry torrefied and HTC biochar blends, *Biomass and Bioenergy*, 63, 229–238.

Saravanan, K. dan Dhurai, B., 2012, Exploration on the amino acid content and morphological structure in chicken feather fiber, *J. Text. Apparel, Technol. Manag.*, 7, .

Sevilla, M. dan Fuertes, A.B., 2009, The production of carbon materials by hydrothermal carbonization of cellulose, *Carbon N. Y.*, 47, 2281–2289.

Sinkiewicz, I., Śliwińska, A., Staroszczyk, H., dan Kołodziejska, I., 2017, Alternative methods of preparation of soluble keratin from chicken feathers, *Waste and biomass valorization*, 8, 1043–1048.

Sirbu, C., Cioroianu, T., dan Dumitrascu, M., 2009, New fertilizers with protein structure with fitostimulator role, *Ser. Agron.*, 52, 473–478.

Sirbu, C., Cioroianu, T., Dumitru, M., Dorneanu, A., Negrila, M., Mihalache, D., dan Angelescu, L., 2008, New structures of biofertilizers with chelate proteinic substances with role of biostimulator and protection for sustainable agriculture, *Ser. Agron.*, 51, 189–194.

Wang, L., Chang, Y., dan Li, A., 2019, Hydrothermal carbonization for energy-efficient processing of sewage sludge; A review, *Renew. Sustain. Energy Rev.*, 108, 423.

Wecke, C., Khan, D.R., Sünder, A., dan Liebert, F., 2017, Age and gender depending growth of feathers and feather-free body in modern fast growing meat-type chickens, *Open J. Anim. Sci.*, 7, 376.

Yang, F. dan Antonietti, M., 2020, Artificial Humic Acids: Sustainable Materials against Climate Change, *Adv. Sci.*, 7, 1902992.

Yarkova, T.A., 2011, Chemical modification of humic acids by the introduction of indole-containing fragments, *Solid Fuel Chem.*, 45, 261.

Zhang, X., Li, X., Li, R., dan Wu, Y., 2020, Hydrothermal Carbonization and Liquefaction of Sludge for Harmless and Resource Purposes: A Review, *Energy & Fuels*, 34, 13268–13290.

Zhu, X., Liu, Y., Qian, F., Zhou, C., Zhang, S., dan Chen, J., 2015, Role of Hydrochar Properties on the Porosity of Hydrochar-based Porous Carbon for Their Sustainable Application, *ACS Sustain. Chem. Eng.*, 3, 833–840.