

## DAFTAR PUSTAKA

- Abidin-2, A. Z.; Sastra, N. M. T. P.; Susanto, G., *Improving Absorption Capacity of Superabsorbent Polyacrylamide By Acrylic Acid Copolymerization, Int. Conf. on Innovation in Polym. Sci. and Tech.*, Bali, Indonesia, 2011.
- Ahmad Fitriadi, 2005, Upaya Penurunan Biaya Produksi dengan Memanfaatkan Ampas Tebu sebagai Pengganti Bahan Penguat dalam Proses Produksi Asbes Semen, *Jurnal teknik Gelagar* Vol. 16 No. 01, April 2005: 10-19.
- Alam, M.S, Sarjono, P.R., Aminin, A.L.N. (2013). Isolasi dan Karakterisasi Selulase dari Bakteri Selulolitik Termofilik Kompos Pertanian Desa Bayat, Klaten, Jawa Tengah. *Jurnal Sains dan Matematika*, 21 (2), 48-53.
- Andriyanti, W. 2017. Pembuatan dan karakterisasi polimer superabsorbendari ampas tebu. *Prosiding Pertemuan dan Presentasi Ilmiah Teknologi Akselerator dan Aplikasinya*. 1 (13) : 1-7.
- Astrini, N., Anah, L., & Haryono, A. (2016). Pengaruh Metilen Bisakrilamid (MBA) pada Pembuatan Superabsorben Hidrogel Berbasis Selulosa terhadap Sifat Penyerapan Air. *Jurnal Kimia dan Kemasan*, 38 (1), 15-20.
- Azizah, A., Irwan, A., & Sunardi, S. (2016). Sintesis Dan Karakterisasi Polimer Superabsorben Berbasis Selulosa Dari Tanaman Purun Tikus (*Eleocharis Dulcis*) Tercangkok Akril Amida (AAM). *Jurnal Sains dan Terapan Kimia*, 6(1), 59-70.
- Billmeyer, F. W. 2017. *Textbook of Polymer Science*. John Wiley & Sons, Inc.
- Charles, 1991 *Conversion of Cellulosic Agricultural Wastes, United states Patent*.
- Chang, S.C.; Yoo, J.S., *Measurement and Calculation of Swelling Equilibria for Water/Poly (AcrylamideSodiummallysufonate) Systems, Korean Journals Chemical Engineering* 16, page 581-584, 1999.
- Coates, J., *Interpretation of Infrared Spectra, A Practical Approach. Encyclopedia of Analytical Chemistry*, R.A. Meyers (Ed.), page 10815-10837, 2000.
- Coleman, D.C. and D.A. Crossley Jr. 1995. *Fundamental of SoilC onditioner. Academic Press*. San Diego. New York. Boston. London. Sydney. Tokio. Toronto

- Cowd M.A. 2018. Kimia Polimer. (Penerjemah Hary Firman). Bandung: Penerbit ITB
- Malcolm P. Stevens. (2001). Kimia Polimer. (Penerjemah Iis Sopyan). Jakarta: Pradnya Paramita.
- Deni, Swantomo, 2008, Pembuatan Komposit Polimer Superabsorben dengan Mesin berkas Elektron, SDM Teknologi Nuklir, Yogyakarta.
- Erfandi, D., U. Kurnia, dan I. Juarsah. 2014. Pemanfaatan Bahan Organik dalam Perbaikan Sifat Fisik dan Kimia Tanah Ultisols. Hlm 77-85. Dalam Prosiding Semnas. Pendayagunaan Tanah Masam, Buku II, Puslitbang Tanah dan Agroklimat, Bogor
- Elliot, M., Superabsorbent Polymers, BASF Product Development Scientist, 1997.
- Essawy, A. H., Ghazy, B. M. M., El-Hai, A. F., & Mohamed, F. M. 2016,' *Superabsorben Hydrogels Via Graft Polymerization Of Acrylic Acid From Kitosan–Cellulose Hybrid And Their Potential In Controlled Release Of Soil Nutriens*’, *Journal Of Biological Macromolecules*, Vol. 89 : Hal. 144-151.
- Flory, P. J., Principle of Polymer Chemistry, NY: Cornell University Press, Ithaca, New York, 2007; hal. 132-148, 576-594.
- Interreg. (2012). Project info 5: *Preparation of adsorbens using chemical activation*. Oulun Yliopisto: University of Oulun.
- Kiatkamjornwong, S., Mongkolsawat, K., & Sonsuk, M. (2002). *Synthesis and property characterization of cassava starch grafted poly acrylamide-co-maleic acid superabsorbent via  $\gamma$ -irradiation*. *Polymer*, 43(14), 3915-3924.
- Kopelma, F. M. (2015). *APPLYING SEM TYPES OF MINERAL*. *Jurnal Natural*, 15 (2).
- Kusumastuti, Ari. “Pengenalan Pola Gelombang Khas dengan Interpolasi”. *Cuachy 2*, no. 1 (2011): h. 7-12.
- Lejcuś, K., Śpitalniak, M., & Dąbrowska, J. (2018). *Swelling behaviour of superabsorbent polymers for soil amendment under different loads*. *Polymers*, 10 (3), 271.
- Gasland, Stein, 1997, *Process of Making Cellulose Products from Straw, United States Patent*.

- Huang, Q., PM. Huang and A. Violante (2008) *Soil Mineral–Microbe–Organic Interactions*. Springer. 353.
- Heriyanto, H., Firdaus, I., & Destiani, A. F. (2015). Pengaruh Penambahan Selulosa dari Tanaman Eceng Gondok (*Eichornia crassipes*) dalam Pembuatan Biopolimer Superabsorben. *Jurnal Integrasi Proses*, 5(2), 88-93.
- Irwan, A., Sunardi, S., & Syabatini, A. (2013). Polimer Superabsorben Berbasis Akrilamida (AAM) Tercangkok Pati Bonggol Pisang (*Musa paradisiaca*). *Prosiding SEMIRATA 2013*, 1(1), 45- 53
- Mahvi, A., *Dariush Naghipour., Forugh Vaezi and Shahrokh Nazmara*. 2005. *Teawaste as An Adsorbent for Heavy Metal Removal from Industrial Wastewater. American Journal of Applied Science* 2 (1) : 372-375.
- Marshall, W.E. and Mitchell M.J. 1996. *Agriculture by-product As Metal Adsorbent: Sorption Properties and Resistance to Mechanical Abrasion. Journal Chemistry Technology Biotechnol* 66 : 92-198.
- Mathew (2006), *Wind Energy: Fundamentals, Resources Analysis, and Economics*. Berlin: Springer
- Matsukawa, K., Masuda, T., Kim, Y. S., Akimoto, A. M., & Yoshida, R. (2017). Thermoresponsive surfacegrafted gels: Controlling the bulk volume change properties by surface-localized polymer grafting with various densities. *Langmuir*, 33(48), 13828- 13833.
- Mwaikambo, L. Y. (2006). “ Review of the History, Properties and Application of Plant Fibres “ Department of Engineering Materials, College of Engineering and Technology.
- Purba, F., Suparno, O., Suryani, A., & Fatimah, I. (2018). Hidrolisat kolagen dari limbah padat kulit samak sebagai coating superabsorbent pada pupuk lambaturai: Sebuah literatur review. *Jurnal Teknologi Industri Pertanian*, 28 (1), 82–93.
- Sadeghi, M., & Heidari, B. (2011). Crosslinked graft copolymer of methacrylic acid and gelatin as a novel hydrogel with pH-responsiveness properties. *Materials*, 4(3), 543–552.
- S. M. Rafigh and A. Heydarinasab, “Mesoporous Chitosan-SiO<sub>2</sub> Nanoparticles: Synthesis, Characterization, and CO<sub>2</sub> Adsorption Capacity,” *ACS Sustain. Chem. Eng.*, vol. 5, no. 11, pp. 10379–10386, 2017.

- Santosa, S.J. 2016. Sintesis Membran Bio Urai Selulosa Asetat dan Adsorben Super Karboksimetil selulosa dari Selulosa Ampas Tebu Limbah Pabrik Gula. Yogyakarta : FMIPA UGM.
- Sarifudin, 2012, Sintesis Polimer Cerdas Superabsorben (Superabsorbent Smart Polymer) dari Bahan Poliakrilamida (PAM), dan Limbah Selulosa sebagai *Soil Conditioner* yang Murah, Yogyakarta.
- Silverstein, R. M.; Bassler, G. C.; Morrill, T. C., *Spectrometric Identification of Organic Compound*, 7th edition, John Wiley and Sons: New York, 2005; hal. 248-283.
- Stork, N.E. and P. Eggleton. 1992. *invertebrates as determinants and indicators of soil quality*. American Journal of Alternative Agriculture 7(1 and 2):38-47.
- Sugesty, S. Nursyamsu dan Dina A. *Lignin dari Beberapa Bahan Baku Pulp*. Berita Selulosa (12). Bandung: Departemen Perindustrian RI. Balai Besar Penelitian dan Pengembangan Industri Selulosa, 2016
- Sulistiyani, Erlinda., Budi, Esmar., Bakri, Fauzi. Pengaruh Temperatur Terhadap Adsorpsi Karbon Aktif Berbentuk Pelet Untuk Aplikasi Filter Air, Seminar Nasional Fisika Universitas Negeri Jakarta, Jakarta. (2013)
- Tahid. 2014. Spektroskopi Inframerah Transformasi Fourier No II th VIII. Warta Kimia Analitis: Bandung
- Wan, T.; Wang, L.; Yao, Lie., Saline Solution Absorbency and Structure Study of Poly (AAM) Water Superabsorbent by Inverse Microemulsion Polymerization, Polymer Bulletin 60, page 431-440, 2008.
- Willian, dkk, 2019, *Preventing Soil Erosion with Polymer Additives*, *Polymer News*, Vol. 24, pp. 406 – 413.
- Witono, J. A., 2017, Produksi Furfural dan Turunannya: Alternatif Peningkatan Nilai Tambah Ampas Tebu Indonesia, (<http://www.chem-is-try.org/>, diakses tanggal 4 Mei 2023).
- Wiwien Andriyanti, 2011, Optimasi Pembuatan Selulosa dari Ampas Tebu sebagai Dasar Pembuatan Polimer Superabsorben, Prosiding Seminar Nasional Kimia, Universitas Islam Indonesia, Yogyakarta.
- Zhang, J., & Wang, A. (2007). Study on superabsorbent composites. IX: synthesis, characterization and swelling behaviors of polyacrylamide/clay composites based on various clays. *Reactive and Functional Polymers*, 67(8), 737-745.

Zheng liuchun, lu guining, cao wei, peng dan, zhu chaoifei, Iin fangfang, dang zhi.  
2013. Modified Cellulose Of Agricultural Resid Used For Removal Of Heavy  
Metals And Oil: Technologies and Applications. South China University Of  
Technology, Guangzhou.

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