

DAFTAR PUSTAKA

- Agarwal PK, et al. (2013). *Comparison of pyruvate decarboxylases from Saccharomyces cerevisiae and Komagataella pastoris (Pichia pastoris)*.
- Agustina S, Swantara IMD, S. I. (2015). *Isolasi kitin, karakterisasi, dan sintesis kitosan dari kulit udang*.
- Ahmad M, Ahmed S, Swami BL, I. S. (2015). Adsorption of heavy metal ions: role of chitosan and cellulose for water treatment. *International Journal of Pharmacognosy*.
- Ahmed, M. J. (2017). Adsorption of quinolone, tetracycline, and penicillin antibiotics from aqueous solution using activated carbons: Review. *Environmental Toxicology and Pharmacology*, 50, 1–10. <https://doi.org/10.1016/j.etap.2017.01.004>
- Amaria., Rudiana A., Cahyaningrum, S. E., Santosa, S. J., dan N. (2007). Adsorpsi Seng(II) Menggunakan Biomassa Saccharomyces cereviceae yang Diimobilisasi pada Silika Secara Sol Gel. *Akta Kimindo*, 2, 63-74.
- Bishop, R. E. S. and R. J. (2000). "modern physical metallurgy and materials engineering",. *Hill International Book Company, New York*.
- Chen, J. P. and Y. S. L. (2007). *Decolorization of azo dye by immobilized Pseudomonas luteola entrapped in alginate-silicate sol-gel beads. Process Biochemistry*. 42, 934–942.
- Fernandez, B. R. (2011). *Spektroskopi IR dan Spektroskopi UV-VIS. Universitas ANDALAS*.
- Ge, H., Hua, T., & Chen, X. (2016). Selective adsorption of lead on grafted and crosslinked chitosan nanoparticles prepared by using Pb²⁺ as template. *Journal of Hazardous Materials*, 308, 225–232. <https://doi.org/10.1016/j.jhazmat.2016.01.042>
- Huang, B., Liu, Y., Li, B., Liu, S., Zeng, G., Zeng, Z., Wang, X., Ning, Q., Zheng, B., & Yang, C. (2017). Effect of Cu(II) ions on the enhancement of tetracycline adsorption by Fe₃O₄@SiO₂-Chitosan/graphene oxide nanocomposite. *Carbohydrate Polymers*, 157(l), 576–585. <https://doi.org/10.1016/j.carbpol.2016.10.025>
- Kampf, N. (2002). *The use of polymers for coating of cells. Polymers advanced technologies*. 13, 10-12.
- Kim, Tae Young., E. al. (2004). Adsorption of Heavy Metal by Brewery Biomass. *Korean J. Chemistry. Eng.*, 22(1), 91–98.
- Marsaputra, B. (2014). *Scanning Electron Microscope (SEM)*.

- Masruhin, M., Rasyid, R., & Yani, S. (2018). Penyerapan Logam Berat Timbal (Pb) Dengan Menggunakan Lignin Hasil Isolasi Jerami Padi. *Journal Of Chemical Process Engineering*, 3(1), 6. <https://doi.org/10.33536/jcpe.v3i1.188>
- Oktarina E, Adrianto R, S. I. (2017). Imobilisasi bakteri pada kitosan-alginat dan kitin-alginat. *Majalah Teknologi Agro Industri (TEGI)*., 9, 1–8.
- Peng, Q., Liu, Y., Zeng, G., Xu, W., Yang, C., & Zhang, J. (2010). Biosorption of copper(II) by immobilizing *Saccharomyces cerevisiae* on the surface of chitosan-coated magnetic nanoparticles from aqueous solution. *Journal of Hazardous Materials*, 177(1–3), 676–682. <https://doi.org/10.1016/j.jhazmat.2009.12.084>
- Pometto, A., C.S. Oulman, A.A. Dispirito, K.E. Johnson, and S. B. (1998). Potential of agricultural by-products in the bioremediation of fuel spill. *Journal of Industrial Microbiology and Biotechnology*, 20(6), 369-372.
- Rohman, A. (2007). *Kimia Farmasi Analisis* (Pustaka Pe).
- Sugita P, Wukirsari T, Sjahriza A, W. D. (2009). *Kitosan Sumber Biomaterial Masa Depan*.
- Sugita P; Wukirsari T, Sjahriza A, W. D. (2009). *Kitosan Sumber Biomaterial Masa Depan*.
- Yin, Y., Wang, J., Yang, X., & Li, W. (2017). Removal of Strontium Ions by Immobilized *Saccharomyces Cerevisiae* in Magnetic Chitosan Microspheres. *Nuclear Engineering and Technology*, 49(1), 172–177. <https://doi.org/10.1016/j.net.2016.09.002>
- Zhang, D., Yin, J., Zhao, J., Zhu, H., & Wang, C. (2015). Adsorption and removal of tetracycline from water by petroleum coke-derived highly porous activated carbon. *Journal of Environmental Chemical Engineering*, 3(3), 1504–1512. <https://doi.org/10.1016/j.jece.2015.05.014>
- Zhang, X., Lin, X., He, Y., Chen, Y., Luo, X., & Shang, R. (2019). Study on adsorption of tetracycline by Cu-immobilized alginate adsorbent from water environment. *International Journal of Biological Macromolecules*, 124, 418–428. <https://doi.org/10.1016/j.ijbiomac.2018.11.218>
- Zhao, Y., Geng, J., Wang, X., Gu, X., & Gao, S. (2011). Adsorption of tetracycline onto goethite in the presence of metal cations and humic substances. *Journal of Colloid and Interface Science*, 361(1), 247–251. <https://doi.org/10.1016/j.jcis.2011.05.051>

Zhou, Y., Liu, X., Xiang, Y., Wang, P., Zhang, J., Zhang, F., Wei, J., Luo, L., Lei, M., & Tang, L. (2017). Modification of biochar derived from sawdust and its application in removal of tetracycline and copper from aqueous solution: Adsorption mechanism and modelling. *Bioresource Technology*, 245, 266–273. <https://doi.org/10.1016/j.biortech.2017.08.178>