DAFTAR PUSTAKA

Adamson, A.W., 1990, *Physical Chemistry of Surfaces*, 5th Ed., John Wiley and Sons, Inc., New York.

Anggraeny, B., Sabarudin, A., dan Rumhayati, B., 2014, Pembuatan kitosan makropori menggunakan garam dapur dan aplikasinya terhadap adsorpsi jingga metil, *J. Student. Chem*., 1, 1–7.

Anirudhan, T. S., and Ramachandran, M. 2015. Adsorptive removal of basic dyes from aqueous solutions by surfactant modified bentonite clay (organoclay); Kinetic and competitive adsorption isotherm. *Process Saf. Environ. Prot.*, 95, 215–225.

Crini, G., and Badot, P.M., 2008, Application of chitosan, a natural aminopolysaccharide, for dye removal from aqueous solution by adsorption processes using batch studies: A review of recent literature, *Prog. Polym. Sci*., 33, 399–447.

Ghaee, A., Shariaty–niassar, M., Barzin, J., and Matsuura, T., 2010, Effects of chitosan membrane morphology on copper ion adsorption, *J. Chem. Eng.*, 165, 46–55.

Ghaee, A., Shariaty–niassar, M., and Barzin, A., 2012, Adsorption of copper and nickel ions on macroporous chitosan membrane: Equilibrium study, *Appl. Surf. Sci.*, 258, 7732–7743.

Gottipati, R., and Mishra, S., 2010, Application of Biowaste (Waste Generated in Biodisel Plant) as an Adsorbent for the Removal of Hazardous Dye Methylene Blue–from Aqueous Phase, *Brazilian Chem. Eng. J.*, 27 (2), 357–367.

Grupta, V. K. Suhas-ali, I., and Saini, V.K., 2004, Removal of rhodamine B, fast green, and methylene blue from wastewater using red mud, an aluminium industry waste. *Ind. Eng. Chem. Res.*, 43, 1740–1747.

Hua, S., and Wang, A., 2009, Synthesis, characterization and swelling behaviors of natrium alginate–g–poly(acrylic acid)/Natrium humate superabsorbent, *Carbohydr. Polym*., 75, 79–84.

Kannan, N., and Sundram, M. M., 2001, Kinetics and mechanism of removal of methylene blue by adsorption on various carbon–a comparative study, *J. Dye and Pigment*., 51, 25–40.

Keputusan Menteri Lingkungan Hidup: Kep–51/MENLH/10/1995 Tentang Baku Mutu Limbah Cair.

Li, Y., Du, Q., Liu, T., Sun, J., Wang, Y., Wu, S., Wang, Z., Xia, Y., and Xia, L., 2013. Methylene blue adsorption on graphene oxide/calcium alginate composites. *Carbohydr. Polym.*, 95(1), 501–507.

Liang, C.Z., and Sun, S.P., 2014, Treatment of highly concentrated wsatewater containing multiple synthetic dyes by a combined process of coagulation/flocculation and nanofiltration, *J. Membr. Sci.*, 469, 306–315.

Mardila, V. T., Sabarudin, A., dan Rumhayati, B., 2014, Pembuatan kitosan makropori menggunakan *epichlorohydrin* sebagai *cross–linker* dan aplikasinya terhadap jingga metill, *J. Student. Chem.*, 182–188.

Muzzarelli, R.A.A., 1977, *Chitin*, Pergamon Press.

Nawaz, M., and Ahsan, M., 2014, Comparison of physico–chemical, advanced oxidation and biological techniques for the textile wastewater treatment, *Alexandria Eng. J.*, 53, 711–722.

Ngah, W.S., and Musa, A., 1998, Adsorption of Humic Acid onto Chitin and Chitosan, *J. Apri, Polym. Sci.*, 69, 2305–2310.

Oscik, J., 1982, *Adsorption*, John Wiley, Chichester.

Saha, T. K., Bhoumik, N. K., Karmaker, S., Ahmed, M. G., Ichikawa, H., and Fukumori, Y., 2010, Adsorption of Methyl Orange onto Chitosan from Aqueous Solution, *J. Water Resour. Protect.*, 2, 898–906.

Shenvi, S. S., Isloor, A. M., Ismail, A.F., Shilton, S.J., and Ahmed, A.A., 2015, Humic acid based biopolymeric membrane for effective removal of methylene blue and rhodamin B, *Ind. Eng. Chem. Res.*, 54, 4965–4975.

Silitonga, S., 2014, Adsorpsi dan desorpsi metilen biru pada membran polielektrolit kompleks kitosan pektin tertaut silang glutaraldehida, *Tesis*, Jurusan Kimia FMIPA, Universitas Gadjah Mada, Yogyakarta.

Siswati, I., Sabarudin, A., dan Darjito, 2014, Pembuatan kitosan makropori menggunakan *Ethylene Glycol Diglycidyl Ether* (EDGE) sebagai cross–linker dan aplikasinya terhadap jingga metil, *J. Student. Chem.*, 1, 175–181.

Stum, W. and Morgan, J.J., 1981, *Aquatic Chemistry*, John Wileys and Sons Inc., New York.

Tanasale, B.F.J.D.P., Kilaiy, A., dan Marsela, A.L., 2012, Kitosan dari limbah kulit kepiting Ranjungan (Portunus sanginolentus L.) sebagai adsorben zat warna biru metilen, *Jurnal Natur Indonesia*, 14(2), 165–171.

Tuny, T., 2013, Adsorpsi desorpsi biru metilen pada membran kompleks PEC kitosan–pektin, *Tesis*, Jurusan Kimia FMIPA Universitas Gadjah Mada, Yogyakarta.

Verma, A.K., Dash, R.R., and Bhunia, O., 2012, A review on chemical coagulation/flocculation technologies for removal of colour from textile wasteaters, *J. Environ. Manage*., 92, 154–168.

Yang, C.L., and McGarrahan, J., 2005, Electrochemical coagulation for textile decolorization, *J. Hazard. Mater*., B127, 40–17.

Yi, J., and Zhang, L., 2008, Removal of methylene blue dye from aqueous solution by adsorption onto Natrium humate/polyacrylamide/clay hybrid hydrogels, *Bioresour. Technol.*, 99, 2182–2186.

Zhang, J., Li, A., and Wang, A., 2006, Synthesis and characterization of multifunctional poly(acrylic acid–co–acrylamide)/Natrium humate superabsorbent composite, *React. Funct. Polym*., 66, 747–756.

Zhang, X., and Bay, R., 2003, Mechanism and Kinetics of Humic Acid Adsorption onto Chitosan–Coated Gradules, *J. Colloid Interface Sci.*, 264, 30–38.

Zhang, Z., and Kong, J., 2011. Novel magnetic Fe_3O_4 nanoparticles as adsorbents for removal organic dyes from aqueous solution. *J. Hazard. Mater*., 193, 325– 329.