

## DAFTAR PUSTAKA

- Bojinova, D., Teodosieva, R., 2016, Extraction of Elements from Coal Fly Ash Using Thermo-Hydrometallurgical Method, *J. Chem. Technol. Metall.*, 51, 577-587.
- Bulut, E., Ozacar, M., Sengil, I. A., 2008, Adsorption of Malachite Green Onto Bentonite; Equilibrium Kinetic Studies and Process Design, *J. Microporous and Mesoporous Material Turkey.*, 115, 234-246.
- Chen, S., Zhang, J., Zhang, C., Yue, Q., Li, Y., Li, C., 2010, Equilibrium and Kinetic Studies of Methyl Orange and Methyl Violet Adsorption on Activated Carbon Derived from *Phragmites australis*, *Desalination.*, 252, 149-156.
- Chen, X., He, L., 2017, Microwave Irradiation Assisted Preparation of Chitosan Composite Microsphere for Dye Adsorption, *Int. J. Polym. Sci.*, 1, 1-8.
- Daneshvar, N., Ayazloo, M., Khataee, A.R., Pourhassan, M., 2007, Biological decolorization of dye solution containing Malachite Green by microalgae *Cosmarium* sp, *Bioresour Technol.*, 98(6), 1176-82.
- Dincer, A.R., Gunes, Y., Karakaya, N., 2006, Coal-Based Bottom Ash (CBBA) Waste Materials as Adsorbent for Removal of Textile Dye-stuffs from Aqueous Solution, *J. Hazard. Mater.*, 141, 529-535.
- Fraditasari, R., Wardhani, S., Khunur, M.M., 2015, Degradasi Methyl Orange Menggunakan Fotokatalis TiO<sub>2</sub>-N: Kajian Pengaruh Sinar dan Konsentrasi TiO<sub>2</sub>-N, *Kimia Student Journal.*, 1(1), 606-612.
- Guo, L., Sun, C., Li, G., Liu, C., 2009, Thermodynamics and Kinetics of Zn(II) Adsorption on Crosslinked Starch Phosphates, *J. Hazard. Mater.*, 161, 510-515.
- Hafid, M., S., 2015, Modifikasi Kimia Abu Dasar Batubara untuk Adsorpsi Metil Violet, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Hameed, B.H., Din, A.T.M., Ahmad, A.L., 2007, Adsorption of Methylene Blue Onto Bamboo-based Activated Carbon: Kinetic and Equilibrium Studies, *J. Hazard. Mater.*, 141, 3, 819-825.
- Hasan, S.H., Singh, K.K., Prakash, O., Talat., Ho., Y.S., 2006, Removal of Cr(VI) from Aqueous Solutions Using Agricultural Waste 'Maize Bran', *J. Hazard. Mater.*, 152, 356-365.

- Jarusiripot, C., 2013, Removal of Reactive Dye by Adsorption Over Chemical Pretreatment Coal Based Bottom Ash, *Procedia Chemistry*, 9, 121-130.
- Komala, P.S., Effendi, A.J., Wenten, I.G., Wisjnuprpto., 2010, Kinerja Biodegradasi Zat Warna Azo menggunakan Bioreaktor Membran Anoksik- Oksik Kontinu pada Umur Lumpur yang berbeda, *Prosiding Seminar Tjipto Utomo*, Bandung.
- Kula, A., Olgun., 2001, Effect of Colemanite Waste, Coal Bottom Ash and Fly Ash on The Properties of Cement, *Chem. Concr. Res.*, 3, 491-494.
- Liu, L., Zhao, F., Xiao, F., Zeng, B.. 2009, Improved voltametric response of malachite green at a multiwalled carbon nanotubes coated glassy carbon electrode in the present of surfactant, *International Journal of Electrochemical Scienc.*, 4, 525-534.
- Lynam, M.M., Kiduff, J.E., Weber, Jr.W.J., 1995, Adsorption of p-Nitrophenol from Dilute Aqueous Solution, *J. Chem.*, 72, 1, 80-84.
- Maharmani, F.W., Sumarni, W., 2003, Kajian Termodinamika Penyerapan Zat Warna Indikator Metil Oranye (MO) dalam Larutan Air oleh Adsorben Kitosan, *JSKA.*, 2, 6, 1-19.
- Mason, B., Moore, C.B., 1982, *Principle of Geochemistry*, John Wiley and Sons Inc, New York.
- Mittal, A., Malviya, A., Kaur, D., Mittal, J., Kurup, L., 2007, Studies on the adsorption Kinetics and Isotherms for the Removal and Recovery of Methyl Oranye from Wastewaters Using Waste Materials, *J. Hazard. Mater.*, 148, 229-240.
- Ocholi O.J., Gimba C.E., Ndukwe G.I., Turoti M., Abechi S.E., Edogbanya P.R.O., 2016, Effect of Time on the Adsorption of Methylene Blue, Methyl Orange and Indigo Carmine onto Activated Carbon. *Journal of Applied Chemistry.*, 9, 55-62.
- Panda, D.R., 2012, Modifikasi Bentonit Terpilair Al dengan Kitosan untuk Adsorpsi Ion Logam. *Skripsi*, Fakultas MIPA Universitas Indonesia (UI). Jakarta.
- Pandey, A., Singh, P., Lyengar, L., 2007, Bacterial Decolorization and Degradation of Azo Dyes, *International Biodeterioration & Biodegradation.*, 59(2), 73-84.

- Penilla, R.P, Bustos, A.G., Elizalde S.G., 2003, Zeolite Synthesized by Alkaline Hydrothermal Treatment of Bottom Ash from Combustion of Municipal Solid Wastes, *J. Am. Ceram. Soc.*, 86 (9), 27–33.
- Polo, M.S., Utrilla, R., Jaya, G.P., Gracia, M.A.F., Toledo, I.B., 2008, Removal of Pharmaceutical Compounds, Nitroimidazols, from Waters by Using the Ozone/Carbon System, *Water Res.*, 42, 4163-4171.
- Ramadhani, P.F., 2014, Adsorpsi Zn(II) pada Abu Dasar Batubara Termobilisasi Dithizon, *Skripsi*, Departemen KIMIA FMIPA UGM, Yogyakarta.
- Saha, T.K., Bhounik, N.C., Karmaker, S., Ahmed, M.G., Ichikawa, H., Fukumori Y., 2010, Adsorption of Methyl Orange Onto Chitosan from Aqueous Solution, *J. Water Resource and Protection.*, 2, 898-906.
- Sandra, J., (2004) *Malachite Green Chloride and Leucomalachite Green.*, U.S. Department of Health dan Human Service, USA.
- Selvam, K., Swaminathan, K., Chae, K.S., 2002, Decolourization of Azo Dyes and a Dye Industry Effluent by a White Rot Fungus *Thelephora* sp, *Bioresource Technology.*, 88, 115–119.
- Srivastava, S., Sinha, R., Roy, D., 2004, Toxicological Effects of Malachite Green, *Aquatic Toxicology.*, 66, 319–329.
- Suarnita, I WayaN., 2012, Pemanfaatan Abu Dasar (Bottom Ash) Sebagai Bahan Pengganti Sebagian Agregat Halus Pada Campuran Beton, *Jurnal Infrastruktur vol 2.*, 2, 65 – 73.
- Sudova, E., Machova J., Svobodova, Z., Vesely, T., 2007. Negative Effects of Malachite Green and Possibilities of its Replacement in the Treatment of Fish Eggs and Fish: a review, *Veterinary Medicinal.*, 52: 527-539.
- Sukmawati, P., Utami, B., 2014, Adsorpsi Zat Warna Tekstil Malachite Green Menggunakan Adsorben Kulit Buah Kakao (*Theobroma cacao*) teraktivasi HNO<sub>3</sub>, *Prosiding Seminar Nasional Fisika dan Pendidikan Fisika FKIP UNS*, Surakarta.
- Trabelsi, H., Atheba P., Gbassi, G.K., Ksibi, M., Drogui, P., 2012, Sunlight-activated Photocatalysis of Malachite Green Using A TiO<sub>2</sub>/Cellulosic Fiber, *International Journal of Hazardous Materials.*, 1, 6–10.
- Van der Zee, F.P., 2002, Anaerobic azo dye reduction, *Thesis*, Wageningen University, The Netherlands.

- Widjajanti, E., Regina T.P., Utomo, M. P., 2011, Pola Adsorpsi Zeolit Terhadap Pewarna Azo Metil Merah dan Metil Jingga. Prosiding, *Seminar Nasional Penelitian, Pendidikan dan Penerapan MIPA*, Fakultas MIPA, Universitas Negeri Yogyakarta, Yogyakarta.
- Wiyono, H., 2009, Studi Adsorpsi Zat Warna Metil Violet oleh Abu Dasar Batubara, *Tesis*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Wong, Y.C., Cheung, T.C., 2009. Performance assessment for determining malachite green and leuco-malachite green in swamp eel (*Monopterus albus*) muscle using assigned reference values in a proficiency test, *Food Additives and Contaminants.*, 26 (11), 1472-1481.
- Yao, Y., He, B., Xu, F., Chen, X., 2011, Equilibrium and Kinetic Studies of Methyl Orange Adsorption on Multiwalled Carbon Nanotubes, *Chem. Eng.*, 170, 82-89.
- Yavuz, Ö., Aydin, A. H., 2006, Removal of Direct Dyes from Aqueous Solution Using Various Adsorbents, *Polish Journal of Environmental Studies Vol. 15.*, 1, 155-161.
- Zhuannian, L., Anning, Z., Guirong, W., Xaioguang, Z., 2009, Adsorption Behaviour of Methyl Orange onto Modified Ultrafine Coal Powder, *Chin. J. Chem. Eng.*, 17, 6, 942-948.