

## DAFTAR PUSTAKA

- Acemioglu, B., 2004, Adsorption of Congo Red From Aqueous Solution onto Calcium-Rich Fly Ash, *J. Colloid Interf. Sci.*, 274, 371–379.
- Agustiani, T., 2015, Adsorpsi Simultan Ion Logam Cu(II) dan Mg(II) Pada Abu Dasar Batubara Terimobilisasi Ditizhon, *Skripsi*, Departemen Kimia UGM, Yogyakarta.
- Berger, H.A., and Bhowan, A.S., 2011, Comparing Physisorption and Chemisorption Solid Sorbents for Use Separating CO<sub>2</sub> from Flue Gas Using Temperature Swing Adsorption, *Energy Procedia*, 4, 562-567.
- Bojinova, D. and Teodosieva, R., 2016, Extraction of Elements from Coal Fly Ash Using Thermo-Hydrometallurgical Method, *J. Chem. Technol. Metall.*, 51, 577-587.
- Chen, S., Zhang, J., Zhang, C., Yue, Q., Li, Y. and Li, Y., 2010, Equilibrium and Kinetic Studies of Methyl Oranye and Methyl Violet Adsorption on Activated Carbon Derived from *Phragmites australis*. *Desalination*. 252, 149-156.
- Chen, X. and He, L., 2017, Microwave Irradiation Assisted Preparation of Chitosan Composite Microsphere for Dye Adsorption, *Int. J. Polym. Sci.* 1, 1-8.
- Chiou, M.S., and Chuang, G.S., 2006, Competitive Adsorption of Dye Metanil Yellow and RB15 in Acid Solutions on Chemically Cross-Linked Chitosan Beads, *Chemosphere*, 62, 731–740.
- Christina, M.,P., Munisatun, S., Saptajji, R. dan Marianto, D., 2007, Studi Pendahuluan Mengenai Degradasi Zat Warna Azo (Metil Oranye) Dalam Pelarut Air Menggunakan Mesin Berkas Elektron 350 keV/10 mA, *JFN*, 1,1.
- Dincer, A.R., Günes, Y. and Karakaya, N., 2006, Coal-Based Bottom Ash (CBBA) Waste Material as Adsorbent for Removal of Textile Dyestuffs from Aqueous Solution, *J. Hazard. Mater.*, 141, 529-535.
- Dogan, M., Ozdemir, Y. and Alkan, M., 2007, Adsorption Kinetics and Mechanism of Cationic Methyl Violet and Methylene Blue Dyes onto Sepiolite, *Dyes Pigments*, 75, 701–713.
- Faridah, A.M., Widiastuti, N dan Prasetyoko, D., 2012, Karakterisasi Abu Dasar PLTU Paiton: Pengaruh Perlakuan Magnet, HCl, dan Fusi dengan NaOH, *Prosiding Seminar Nasional Kimia Unesa*, 25 Pebruari 2012, Surabaya.

- Gupta, V.K., Mittal, A., Krishnan, L. and Gajbe, V., 2004, Adsorption Kinetics and Column Operations for The Removal And Recovery of Malachite Green From Wastewater Using Bottom Ash, *Sep. Purif. Technol.*, 40,87-96.
- Gupta, V.K., Mittal, A., Krishnan, L. and Mittal, J., 2006, Adsorption Treatment and Recovery, Hazardous Dye Brilliant Blue FCF, Over Bottom Ash and De-Oiled Soya, *J. Colloid Interf. Sci.*, 293, 16-26.
- Hafid, M.S., 2015, Modifikasi Kimia Abu Dasar Batubara untuk Adsorpsi Metil Violet, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Handayani, M., dan Sulistiyono, E., 2009, Uji Persamaan Langmuir dan Freundlich pada Penyerapan Limbah Chrom(VI) oleh Zeolit, *Prosiding Seminar Nasional Sains dan Teknologi Nuklir PTNBR BATAN*, 3 Juni 2009, Tangerang.
- Haque, E., Jun, J. W. and Jhung, S. H., 2011, Adsorptive Removal of Methyl Oranye and Methylene Blue from Aqueous Solution with A Metal-Organic Framework Material, Iron Terephthalate (MOF-235), *J. Hazard. Mater.*, 185, 507-511.
- Hartini, E., 2011, Modifikasi Zeolit Alam dengan ZnO untuk Degradasi Fotokatalisis Zat Warna, *Tesis*, Departemen Kimia UI, Depok.
- Hecht, N.L., dan Duvall, D.S., 1975, *Environmental Technology Series Characterization and Utilization of Municipal and Utility Sludges and Ashes*, U.S. Environmental Protection Agency, Cincinnati.
- Hsu, T.C., 2008, Adsorption of an Acid Dye onto Coal Fly Ash, *Fuel*, 87, 3040-3045.
- Ismail, M.G.B.H., Weng, C. N., Rahman, H.A. and Zakaria, N.A., 2013, Freundlich Isotherm Equilibrium Equations in Determining Effectiveness a Low Cost Absorbent to Heavy Metal Removal In Wastewater (Leachate) At Teluk Kitang Landfill, Pengkalan Chepa, Kelantan, Malaysia, *JGES*, 1, 01-08.
- Jarusiripot, C., 2014, Removal of Reactive Dye by Adsorption over Chemical Pretreatment Coal Based Bottom Ash, *Procedia Chem.*, 9, 121-130.
- Lynam, M.M., Kliduff, J.E., and Weber, Jr. W.J., 1996, Adsorption of p-nitrophenol from Dilute Aqueous Solution, *J. Chem. Educ.* 72, 80-84.
- Mahatmanti, F.W., dan Sumarni, W., 2003, Kajian Termodinamika Penyerapan Zat Warna Indikator Metil Oranye (MO) Dalam Larutan Air oleh Adsorben Kitosan, *JSKA*, 1, 2.

- Mall, I.D., Srivastava, V.C. and Agarwal, N.K., 2006, Removal of Oranye-G and Methyl Violet Dyes by Adsorption onto Bagasse Fly Ash—Kinetic Study and Equilibrium Isotherm Analyses, *Dyes Pigments*, 69, 210–223.
- Megawati, T. dan Henny, C.F.S., 2000, Penggunaan *Bottom Ash* sebagai Material dalam CLSM (*Controlled Low Strenght Material*), *Skripsi*, Departemen Teknik Sipil Universitas Kristen Petra, Surabaya.
- Mishra, G. and Tripathi, M., 1993, A Critical Review of the Treatments for Decolourization of Textile Effluent, *Colourage*, 40, 35-38.
- Mittal, A., Malviya, A., Kaur, D., Mittal, J. and 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.
- Paul, M., Seferinoglu, M., Aycik, G. A., Sandstrom, A., Smith, M.L. and Paul, J., 2006, Acid Leaching of Ash and Coal: Time Dependence and Trace Element Occurrences, *Int. J. Miner. Process*, 79, 27-41.
- Polo, M.S., and Utrilla, J.R., 2003, Effect of the Ozone-carbon Reaction on the Catalytic Activity of Activated Carbon During the Degradation of 1,3,6-naphthalenetrisulphonic Acid with Ozone, *Carbon*, 41, 303-307.
- Rahmadhani, P.F., 2014, Adsorpsi Zn (II) Pada Abu Dasar Batubara Terimobilisasi Dithizon, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Sakanishi, K., Akashi, E., Nakazato, T., Tao, H., Kawashima, H. and Saito, I., Takarada, T., 2003, Characterization of Eluted Metal Components from Coal during Pretreatment and Solvent Extraction, *Fuel*, 83, 739-743.
- Singh, M. and Siddique, R., 2012, Effect of Coal Bottom Ash as Partial Replacemtn, of Sand on Properties of Concrete, *J. Res. Cons. Rec.*, 72, 20-32.
- Sulestio, T., 2015, Adsorpsi Simultan Ion Logam Pb(II) dan Cd(II) Pada Abu Dasar Batubara Terimobilisasi Dithizon, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Tanhei B., Ayati, A., Lahtinen, M. and Sillanpaa, M., 2015, Preparation and Characterization of a Novel Chitosan/Al<sub>2</sub>O<sub>3</sub>/Magnetite Nanoparticles Composite Adsorbent for Kinetic, Thermodynamic and Isotherm Studies of Methyl Oranye Adsorption, *Chem. Eng. Journal.*, 259, 1-10.
- Tong, Z., Zheng, P., Bai, B., Wang, H. and Suo, Y., 2016, Adsorption Performance of Methyl Violet via  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>@Porous Hollow Carbonaceous Microspheres

and its Effective Regeneration through a Fenton-Like Reaction, *Catalysts*, 6, 58.

Wang, S. and Li H., 2005, Dye Adsorption on Unburned Carbon: Kinetics and Equilibrium, *J. Hazard. Mater.*, 126, 71-77.

Wang, S. and Zhu, Z.H., 2006, Sonochemical Treatment of Fly Ash for Dye Removal from Wastewater, *J. Hazard. Mater.*, 53-58.

Wiyono, H., 2009, Studi Adsorpsi Zat Warna Metil Violet oleh Abu Dasar Batu Bara, *Tesis*, Departemen Kimia FMIPA UGM, Yogyakarta.

Yao, Y., He, B., Xu, F. and Chen, X., 2011, Equilibrium and Kinetic Studies of Methyl Oranye Adsorption on Multiwalled Carbon Nanotubes, *Chem. Eng.*, 170, 82-89.

Yuksel, I. and Genc, A., 2007, Properties of Concrete Containing Nonground Ash and Slag as Fine Aggregate, *ACI Mater. J.*, 104.