

DAFTAR PUSTAKA

- Acar, O., S. Ozvatan, M. Ilim. (2005). Determination of cadmium, copper, iron, manganese, lead and zinc in lichens and botanic samples by electrothermal and flame atomic absorption spectrometry. *Turk J. Chem.* 29: 335-344.
- Achmad, Rukaesih. (2004). Kimia Lingkungan. *ANDI Yogyakarta, Yogyakarta.*
- Akbar Esmaeili, Mona Kalantari, Betsabe Saremnia.(2013). Biosorption of Pb(II) from Aqueous Solutions by Modified of Two Kinds of Marine Algae, *Sargassum glaucescens* and *Gracilaria corticata*. *Polish Journal of Chemical Technology* 14,2,22-28.
- Al-Asheh, S., Banat, F., Al Omari, R., Duvnjak, Z., (2000), Prediction of Binary Sorption Isotherm for The Sorption of Heavy Metal by Pine bark Using Single Isotherm Data. *Chemosphere* 41 : 659-665.
- Al Othman Z. A., M. Naushad, R. Ali. (2012). Kinetic, equilibrium isotherm and thermodynamic studies of Cr(VI) adsorption onto low-cost adsorbent developed from peanut shell activated with phosphoric acid. *Environ Sci Pollut Res.* DOI 10.1007/s11356-012-1259-4.
- Ashraf, M.A., Mahmood, K., Wajid, A.,(2011). Study of Low Cost Biosorption of Heavy Metals. *International Conference on Food Engineering and Biotechnology.* 9, 60-68
- Augustine E. Ofomaja, Yuh - Shan Ho.(2008). Kinetic Biosorption Study of Cadmium onto Coconut Copra Meal as Biosorbent. *Int. J. Environment and Pollution* 34, No 1/3/4.
- Babarinde N.A.A., Babalola, J.O., Sanni, R.A., (2006). Biosorption of lead ions from aqueous solution by maize leaf. *International Journal of Physical Sciences.* 1, 023-026.
- Babarinde, N.A.A., Babalola. J.O., Adegoke. J., George. E.O., Henrietta O., Okeke and Ayoola T. Obagbemi. (2012). Kinetic, Equilibrium, and Thermodynamic Studies of the Biosorption of Cd(II), Pb(II), and Zn(II) from Aqueous Solutions using Coconut (*Cocos nucifera*) Leaf. *The Pacific Journal of Science and Technology.* 13. No:1.
- Beaty, Richard D and Jack D. Kerber. (1993). Concepts, Instrumentation and Techniques in Atomic Absorption Spectrophotometry. *Norwalk: The Perkin Elmer Corporation.*

- Beolchini, F., Pennesi, C., Romagnoli, T., Totti, C., Centofanti, M., Mosca, L., Veglio, F., (2005). Lead biosorption by marine macrophytes : effect of macrophyte structure and pH on the process. *Chemical Engineering Transaction*. 6, 885-890.
- Bagosty, V.S. (2006). Fundamentals of electrochemistry. *New Jersey, John Wiley and Sons Inc.*
- Darmono. (2001). Lingkungan Hidup dan Pencemaran: Hubungannya dengan Toksikologi senyawa logam. *UI-Press. Jakarta.*
- Effendi, H. (2003). Telaah Kualitas Air bagi Pengelolaan Sumberdaya dan Lingkungan Perairan. *Kanisius. Yogyakarta.*
- El Sayed.,Dessouki.,Ibrahiem. (2011). Removal of Zn(II), Cd(II) and Mn(II) From Aqueous Solutions by Adsorption on Maize Stalks. *Malaysian Journal of Analytical Sciences*. 15 No.1:8-21
- Fatmawati. (2006). Kajian Adsorpsi Cd (II) Oleh Biomassa Potamogen (Rumput Naga) yang Terimobilkan Pada Silica Gel. *Banjarbaru FMIPA Universitas Lambung Mangkurat.*
- Gadd, G.M. (1998). *Biotechnology* 6.pp: 401-433.
- Guibal, E.,Roulph, C., and Le Cloiree, P. (1992). Uranium Biosorption by A Filamentous Fungus mucor michei: pH Effect on Mechanisms and Performace of Uptake. *Water. Env. Research*.8 :1139-114.
- Heyne, K. (1987). Tumbuhan Berguna Indonesia, *jl. 1. Yay. Sarana Wana Jaya, Jakarta*. Hal. 447-455.
- Ishak, M. R., S. M. Sapuan, Z. Leman, M. Z. A. Rahman, U. M. K. Anwar. (2012). Characterization of sugar palm (Arenga pinnata) fibres. *J Therm Anal Calorim*. 109. pp.981-989.
- Jafari N., Z. Senobari. (2012). Removal of Pb (II) ion from aqueous solution by *Cladophora rivularis* (Linnaeus) hoek. *The Scientific World Journal*, 2012, 01-06.
- Julio C.P. Vaghetti, Eder C. Lima, Betina Royer, Bruna M da Cunha, Natali F. Cardoso. Jorge L. Brasil, Silvio L.P. Dias. (2009) Pecan nutshell as Biosorbent to Remove Cu(II), Mn(II) and Pb(II) from Aqueous Solutions. *Journal of Hazardous Materials* 162 : 270-280.
- Kizito M. E. Iheanacho. (2010). Comparative Studies of the Nutritional Composition of Soy Bean (glycine max) and Lima Bean (phaseolus lunatus). *Scientia Africana* . 9.No.2, 29-35.

- Lahuddin, M. (2007). Aspek Unsur Mikro dalam Kesuburan Tanah. *USU-Press, Medan*.
- Marandi., Doulati., Amir Afshar. (2010). Biosorption of Lead(II) and Zinc(II) ions by pretreated biomass of phanerochaete chrysosporium. *Int.Journal of Mining & Env.* .1.1
- Meilia I.K, Z Abdullah, A Rahmadani, R Zein, E Munaf.(2014). Isotherm and Kinetic Modeling of Pb(II) and Cu(II) Uptake by Annonamuricata L.Seeds. *Asian Journal of Chemistry*. 26. No 12, 3588-3594.
- Munaf, E., Suhaili, R., Anwar, Y., Indrawati, Zein, R., (2009). Dynamic Removal of Toxic Metals from Wastewater using Perlite as Sorbent. *Asian Journal of Chemistry* 21 No 3 . 2059-2066.
- Nagase, Inthorn, H.D., Oda, A., Nishimura, J., Kajiwara, Y., M. Park, K. Hirat., Miyamoto, K.,. (2005). Improvement of selective removal of heavy metals in cyanobacteria by NaOH treatment., *Journal of Bioscience and Bioengineering* .99.4. 372-377.
- Nazaruddin, N., Arrisujaya,D.,Hidayat., Zein, R., Munaf, E., Jin.J.,(2014).Batch Method for the Removal of Toxic Metal from Water Using Sugar Palm Fruit (Arenga pinnata Merr) Shell.*RJPB Chem Science*.5(2).1619-1629.
- Nazaruddin, N., R. Zein .,E. Munaf., Jin.J (2014).Biosorption of Copper(II),Lead (II), Cadmium(II),and Zinc(II)ions from aqueous solution by Nypa Fruticans Merr Shell on Batch Method.*J.Chem.Pharm. Rest.* 6(12) :370-376
- Nazaruddin, N., R. Zein., E. Munaf., Deswati., Jin.J (2015). Adsorptif Stripping Voltammetry Determination of Heavy Metal ions Aqueous Solution by some Biosorbent. *J.Chem.Pharm.Res.* 7(8): 1-5.
- Nirmal Kumar, J.I., Cici Ommen. (2012). Removal of Heavy Metals by Biosorption using Freshwater alga Spirogyra hyalina. *J.Environ.Biol* 33.27.31.
- Ogata, T., Y. Nakano. (2004). Novel Recovery System of gold from aqueous solutions using a tannin gel, *Asian Pacific Confederation of Chemical Engineering congress program and abstracts*, . 2004, .666-.672.
- Preetha, B., T. Virutaghiri. (2005). Biosorption of zinc (II) by Rhizopus arrhizus: equilibrium and kinetic modelling, *African Journal of Biotechnology*. 4.No. 6. 506-508.
- Refilda, Munaf, E., Zein, R., Deswati, dan Kayora, E., (2000). The use of Salak husk for removal iron, cadmium, zinc, copper from wastewater. *J. Kimia Andalas*, 6.49-53.

Rohmah, NJ. (2010). Pengaruh Pemberian Beberapa Jenis Tepung Kacang Terhadap Penurunan Resiko Atherosklerosis pada Tikus Putih (*Rattus norvegicus*,l) Akibat Diet Lemak Tinggi. Skripsi. *Jurusan Biologi. Fakultas Sains dan Teknologi Universitas Islam Negeri (UIN) Maulana Malik Ibrahim. Malang.*

Salem., Awwal., Ammar, (2012), Biosorption of Pb(II), Zn(II) and Cd(II) from Aqueous Solution by (*Eriobotrya japonica*) Loquat Bark. *Int.Journal of Enviromental Protection*.2,11:1-7

Sisca O.Lesmana, Novie Febriana, Felycia E. Soetaredjo, Jaka Sunarso, Suryadi Ismadji.(2009). Studies on Potential Applications of Biomass for the Separation of Heavy Metals from Water and Wastewater. *Biochemical Engineering Journal*.44. 19-41.

Skoog, D.A. (1985). Principles of Instrumental Analysis. *New York : Saunders College Publishing.*

Zein, R.,F. Nazulis dan Munaf, E., (2003), Modifikasi limbah serbuk gergaji dengan kongo merah untuk menyerap ion tembaga dalam air limbah, *Jurnal Matematika dan Ilmu Pengetahuan Alam* .12.No (1), 50-53.

Zein, R. Suhaili, Earnestly, F., Indrawati, Munaf, E. (2010). Removal of Pb(II), Cd(II) and Co(II) from aqueous solution using *Garcinia mangostana* L. Fruit shell water. *Journal of Hazardous Materials*. 181.52-56.

Zein, R., Arrisujaya, D., Elfia, M., Nazaruddin, N., Munaf, E. (2014). Sugar palm *Arrenga pinnata* Merr (Magnolophyta) fruit shell as biomaterial to remove Cr(III), Cr(IV), Cd(II) and Zn(II) from aqueous solution. *J. Of Water Supply, Res and Technol, AQUA* 63(7) 553-559.

Wang, Joseph., (2001), Analytical Electrochemistry, *Second Edition. A John Wiley & Sons, Inc., Publication, New York*

Widowati., Sastiowo., A dan Yusuf. (2008). Efek Toksik Logam. *Yogyakarta : Andi.*

