

DAFTAR PUSTAKA

- Amanatin *et al.* (2013). Produksi Protein Sel Tunggal (Pst) *Spirulina* sp. sebagai *Super Food* dalam Upaya Penanggulangan Gizi Buruk dan Kerawanan Pangan di Indonesia. (Artikel). Jurusan Biologi, Institut Teknologi Sepuluh Nopember.
- Asnaoui H. (2014). Decontamination Solution of Chromium(VI) by Marine Algae (*Ulva lactuca*), *Int. J. Innov. Res. Adv. Eng.* 1: 62–67.
- Babu, D. J. (2014). Kinetic, Equilibrium and Thermodynamic Studies of Biosorption of Chromium(VI) From Aqueous Solutions Using *Azolla Filiculoides*. *J. Pure Appl. Microbiol.* 8: 3107–3116.
- Cabatingan L. K, *et al.* (2001). Potential of Biosorption for The Recovery of Chromate in Industrial Wastewaters. *Ind Eng Chem Res.* 40(10): 2302–2309.
- Chojnaka *et al.* (2005). Biosorption of Cr^{3+} , Cd^{2+} and Cu^{2+} Ions by Blue-Green Algae *Spirulina* Sp.: Kinetics, Equilibrium and the Mechanism of the Process. *Journal Chemosphere.* 59(1): 75-84.
- Das, Alok Prasad. (2009). Bioreduction Based Bioremediation of Hexavalent Chromium Cr(VI) through Potential Indigenous Microbes. (Tesis). Department of Chemical Engineering National Institute of Technology, India.
- Dilek dan Ulker. (2015). Cr(VI) Adsorption onto Biomass Waste Material Derived Activated Carbon. [Online]. Diakses dari <http://www.intechopen.com/books/desalination-updates/cr-vi-adsorption-onto-biomass-waste-material-derived-activated-carbon>.
- Fadilah, Rifka dan Herto Dwi Ariesyady. (2012). Analisis Kelimpahan dan Keragaman Mikroalga di Kolam Stabilisasi Instalasi Pengolahan Air Limbah Berdasarkan Analisis Biologi Konvensional dan Molekuler. (Tesis). Program Studi Magister Teknik Lingkungan, Fakultas Teknik Sipil dan Lingkungan, Institut Teknologi Bandung.
- Fadlila, Risky Nurul. (2015). Biosorption Ion Metal Cd(II) and Cr(VI) by Purun Tikus Biosorben (*Eleocharis dulcis*). (Tesis). Program Studi Kimia Pasca Sarjana Universitas Hasanuddin Makassar.
- Fedor, Karali. (2011). *Arthrospira platensis*. [Online]. Diakses dari http://bioweb.uwlax.edu/bio203/2011/fedor_kara/facts.htm.
- Firdaus, M. dan Ahmad Fauzan. (2016). Produksi dan Kandungan Nutrisi *Spirulina fusiformis* yang Dikultur dengan Pencahayaan Monokromatis Light Emitting Diodes (LEDs). *Jurnal riset akuakultur*.

- Gagrai, M. K, *et al.* (2013). Reduction of Cr (VI) into Cr (III) by Spirulina Dead Biomass in Aqueous Solution: Kinetic Studies. *Chemosphere*.
- Gokhale *et al.* (2008). Kinetic and Equilibrium Modeling of Chromium (VI) Biosorption on Fresh and Spent *Spirulina platensis/Chlorella vulgaris* Biomass. 99(9) : 3600-3608.
- Han X, *et al.* (2007). Biosorption and Bioreduction of Cr(VI) by a Microalgal Isolate, *Chlorella miniata*. *Journal of Hazard Mater.* 146 : 65–72.
- He, J. Dan J. Paul Chen. (2014). A Comprehensive Review on Biosorption of Heavy Metals by Algal Biomass: Materials, Performances, Chemistry, and Modelling Simulation Tools. *Journal of Bioresource Technology*. 160 : 67-78.
- Hendayana, S. *et al.* (1994). Kimia Analitik Instrumen. Semarang: IKIP Semarang Press.
- Hidayat, S. (2012). Pemanfaatan Biomassa Karang (*Heliofungia actiniformis*) sebagai Biosorben Ion Logam Cd(II). (Tesis). Program Studi Kimia Pasca Sarjana Universitas Hasanuddin.
- Joutey, N. T. *et al.* (2010). Mechanisms of Hexavalent Chromium Resistance and Removal by Microorganisms. *Journal Reviews of Environmental Contamination and Toxicology*. 233 : 1-109.
- Kanchana, S. J. *et al.* (2014). Biosorption of Heavy Metals Using Algae : A Review. *Journal Pharma Bio Sci.* 3.
- Lee, Y. C. dan Shui-Ping Chang. (2011). The Biosorption of Heavy Metals from Aqueous Solution by *Spirogyra* and *Cladophora* Filamentous Macroalgae. *Journal of Bioresource Technology*. 102(9): 5297-5304.
- Li, Shen *et al.* (2008). Comparative Study on Biosorption of Pb(II) and Cr(VI) by *Synechococcus* sp. 6. *Journal Transactions of Nonferrous Metals Society of China*. 18 : 1336-1342.
- Maksin DD. *et al.* (2012). Equilibrium and Kinetics Study on Hexavalent Chromium Adsorption onto Diethylene Triamine Grafted Glycidyl Methacrylate Based Copolymers. *Journal of Hazard Mater.* 209–210 : 99–110.
- Mehta, S. K. dan Gaur, J. P. (2005). Use of Algae for Removing Heavy Metal Ions from Wastewater: Progress and Prospects. *Critical reviews in biotechnology*. 25 : 113–152.
- Murphy V. *et al.* (2008). Comparative Study of Chromium Biosorption By Red , Green and Brown Seaweed Biomass. *Journal of Chemosphere*. 70 : 1128-1134.

- Murphy V. *et al.* (2009). A Novel Study of Hexavalent Chromium Detoxification by Selected Seaweed Species using SEM-EDX and XPS Analysis. *Journal of Chem Eng.* 148 : 425–33.
- Owlad, M. dan Aroua, M. K. (2009). Removal of Hexavalent Chromium-Contaminated Water and Wastewater: A Review. *Journal of Water Air Soil Pollut.* 200 : 59-77.
- Pamungkas, Agung. (2005). Sistem Taksonomi hewan dan tumbuhan. ANDI : Bandung.
- Setiabudi A. *et al.* (2012). Karakterisasi Material: Prinsip dan Aplikasinya dalam Penelitian Kimia. Bandung: Program Studi Kimia FPMIPA Universitas Pendidikan Indonesia.
- Shen L. *et al.* (2008). Comparative Study on Biosorption of Pb(II) and Cr(VI) by *Synechococcus* sp. *Transactions of Nonferrous Metals Society of China.* 18(6) : 1336-1342.
- Sheng P. X. *et al.* (2004). Sorption of Lead, Copper, Cadmium, Zinc, and Nickel By Marine Algal Biomass: Characterization of Biosorptive Capacity and Investigation of Mechanisms. *Journal of Colloid and Interface Science.* 275(1): 131-141.
- Shin, W. dan Kim, Y. (2014). Biosorption Characteristics of Heavy Metals (Ni^{2+} , Zn^{2+} , Cd^{2+} , Pb^{2+}) from Aqueous Solution by *Hizikia fusiformis*. *Environmental Earth Sciences.* 71(9) : 4107-4114.
- Shukla, D. *et al.* (2012). Bioremediation of Hexavalent Chromium by a Cyanobacterial Mat. *Applied Water Science.* 2(4) : 245-251.
- Soeprbowati, T. R. dan Riche Hariyati. (2013). Potensi Mikroalga sebagai Agen Bioremediasi dan Aplikasinya dalam Penurunan Konsentrasi Logam Berat pada Instalasi Pengolah Air Limbah Industri. Laporan Tahunan/Akhir Penelitian Fundamental Universitas Diponegoro : tidak diterbitkan.
- Svehla, G. (1979). Textbook of Macro and Semimicro Qualitative Inorganic Analysis. London : Longman Group Limited.
- Sweetly, J. (2014). Macroalgae as A Potentially Low-Cost Biosorbent for Heavy Metal Removal: A Review, *Int. Journal of Phar. Biol. Arch.* 5:17-26.
- Villegas, L. B. *et al.* (2008). “Chromate Removal” by Yeasts Isolated from Sediments of a Tanning Factory and A Mine Set in Argentina. *Journal of Biometals.* 21 : 591-600.
- Xie, Y. *et al.* (2014). Kinetic Simulating of Cr(VI) Removal by the Waste *Chlorella vulgaris*. *Journal of the Taiwan Institute of Chemical Engineers.* 45 : 1773–1782.

- Yang, L. dan Chen, J. P. (2008). Biosorption Of Hexavalent Chromium onto Raw and Chemically Modified Sargassum sp. *Bioresource Technology*. 99 : 297–307.
- Zhou L. *et al.* (2013). Effects of Low-Concentration Cr(VI) on the Performance and the Membrane Fouling of a Submerged Membrane Bioreactor in Municipal Wastewater Treatment. *Journal of Bio-fouling*. 30:105–14.