



DAFTAR PUSTAKA

- Anonim. 2004. Standard Methods for the Examination of Water and Wastewater 20th edition” 10200 H. *Chlorophyll*
- Alaerts, G. dan S. S. Santika. 1984. *Metode penelitian air*. Surabaya: Usaha Nasional. hlm. 58.
- Bollag, D.M. and Edelstein, S.J. 1991. *Protein methods*. Departement of Biochemistry. University of Geneva; Geneva, Switzerland
- Brock, T.D., Madigan, M.T., Martinko, J.M. and Parker, J. 1992. *Biology of Microorganisms*. Prentice Hall. Englewood Cliffs: New Jersey
- Brix, H. and Schierup H. H. 1989. The use of aquatic macrophytes in water-pollution control. *Ambio*. 18:100-107
- Chandra, P. and K. Kulshreshtha. 2004. Chromium accumulation and toxicity in aquatic vascular plants. *Bot. Rev.* 70 : 313–327.
- Darmono. 1995. *Logam dalam sistem biologi makhluk hidup*. Universitas Indonesia (UI-Press). Jakarta.
- Dhir, B., P. Sharmila, P.P. Saradhi, and S.A. Nasim. 2009. Physiological and antioxidant responses of *Salvinia natans* exposed to chromium-rich wastewater. *Ecotoxicol Environment*. 72 : 1790-1797
- Doeleman, J. A. 1989. Biological control of *Salvinia molesta* in Sri Lanka: an assessment of cost and benefits. *Australian Center for International Agriculture Research*. Canberra.
- Effendi, H. 2003. *Telaah kualitas air*. Yogyakarta: Kanisius. hlm 57.
- Graham, L. E. and L. W. Wilcox. 2000. *Algae*. Prentice Hall, inc. New Jersey.
- Ghosh, M. and S. P. Singh. 2005. *Coparative uptake and phytoextraction study of soil induced chromium by accumulator and high biomass weed species*. Biomass and Waste Management Laboratory, School of Energy and Environmental Studies, Faculty of Engineering Sciences, Delhi Ahilya University. India.
- Hirata, K., N. Tsuji, and K. Miyamoto. 2005. Biosynthetic regulation of phytochelatins, heavymetal-binding peptides. *Journal of Bioscience and Bioengineering*. Vol.100, 2005



- Hogan, C. M. 2011. Heavy metal. *Encyclopedia of Earth National Council for Science and The Environment*. eds. E. Monosson & C. Cleveland. Washington D. C.
- Howard, G.W. and K.L.S. Harley. 1998 How do floating aquatic weeds affect wetland conservation and development? How can these effects be minimised? *Wetlands Ecology and Management* 5: 2150225
- Inang, A. L. 2011. Chlorophyll : Structural Properties, Health Benefits, and Its Occurance in Virgin Olive Oils. *Akademik Gida* 9(2) : 26-30
- Khaleghi, E., K. Arzani, N. Moallemi, and M. Barzegar. 2012. Evaluation of chlorophyll content and chlorophyll fluorescence parameters and relationship between chlorophyll a, b, and chlorophyll content index under water stress in *Olea europaea* cv. Dezful. *World Academy of Science, Engineering and Technology* 68 : 1154-1155
- Koesnarpadi, S. 2007. Biotransformasi Krom (VI) oleh bakteri *Pseudomonas putida*. *Jurnal Kimia Mulawarman* Vol. 5 Nomor 1
- Koolman, J. and K. Roehm. 2005. *Color atlas of biochemistry*, 2nd edition. Stuttgart. Thieme. Page : 61
- Labra, G., R. Waite, I. Eberini, A. Sozzi, S. Regondi, F. Grassi, and E. Agradi. 2006. *Zea mays* L. protein changes in response to potassium dichromate treatments. *Chemosphere* 62 (2006) 1234–1244.
- Larcher, W. 1995. Physiological plant ecology. *Springer*, Berlin. pp. 506
- Milenković, S. M., J. B. Zvezdanović, T. D. Anđelković, D. Z. Marković. 2012. The identification of chlorophyll and its derivatives in the pigment mixtures : HPLC-Chromatography, visible and mass spectroscopy studies. *Original Scientific Paper* 1(1) : 16-17.
- Mitchell, D.S., T. Petr, and A. B. Viner. 1980. The water-fern *Salvinia molesta* in the Sepik river, Papua New Guinea. *Environmental Conservation*, Vol 7, No 2.
- Morin, J. V. 2011. *Studi fitoremediasi logam timbal (Pb) dan kadmium (Cd) oleh tanaman kayambang (Salvinia molesta)*. Tesis. Universitas Gadjah Mada. Yogyakarta.
- Nayer, M., dan Reza H. 2007. Effects of drought stress on soluble proteins in two maize varieties. *Turk J Biol.* 32 (2008) 23-30
- Nelson, D., L. Cox, M. Michael. 2005. *Lehninger Principles of Biochemistry* 4th ed. W. H. Freeman. New York. pp : 75-90
- Ni, Z., E. D. Kim, and Z. J. Chen. 2014. Chlorophyll and starch assays. *Nature* ISSN 2043-0116



- Olguin, E. J., E. Hernandez, and I. Ramos. 2002. The effect of both different light conditions and the pH value on the capacity of *Salvinia minima* Baker for removing cadmium, lead, and chromium. *Acta Biotechnol* 22 : 1-2, 121-131
- Pancho, J.V., and Soerjani, M. 1978. *Aquatic weeds of southeast Asia*. – National Publisher Cooperative. Quezon City. Philippines
- Prado, C., L. Rodriguez-Montelongo, J. A. Gonzales, E. A. Pagano, M. Hilal, and F. E. Prado. 2009. Uptake of chromium by *Salvinia minima*: Effect on plant growth, leaf respiration, and carbohydrate metabolism. *Journal of Hazardous Materials* 177 : 546-553
- Prado, C., M. Rosa, E. Pagano, M. Hilal, and F. E. Prado. 2010. Seasonal variability of physiological and biochemical aspects of chromium accumulation in outdoor-grown *Salvinia minima*. *Chemosphere* 81 : 584-593
- Qin, L., L. H. Zhenil, A. Donald, P. J. Graetz and X. Y. Stoffella. 2011. Uptake and distribution of metals by water lettuce (*Pistia stratiotes* L.) *Environ Sci Pollut Res.*, 18:978-986.
- Rai, V., P. Vajpayee, and S. Mehra. 2004. Effects of Chromium accumulation on photosynthetic pigments, oxidative stress defense system, nitrate reduction, proline level and eugenol content of *Ocimum tenuiflorum* L., *Plant Sci.* 167 1159–1169.
- Rachmawati, D., M. Nasir, Sudjino, dan K. Dewi. 2009. *Bahan Ajar Fisiologi Tumbuhan*. Fakultas Biologi Universitas Gadjah Mada. Yogyakarta p : 18.
- Rahmansyah dan Maman. 2009. *Tumbuhan Akumulator untuk Fitoremediasi Lingkungan Tercemar Merkuri dan Sianida Penambangan Emas*. Jakarta : LIPI Press
- Robert, M. and N. Ingram. 2001. *Biology*, 2nd ed. Thomas Nelson and Son Ltd, London p:184
- Satykala, G. and Jamil K. 1997. Studies on the free effect of heavy metal solution on *Pistia stratiotes* L. (water lettuce). *Indian J. Environ., HLTH.* 39(1):1-7
- Siedlecka, A. and Z. Krupa. 2004. Rubisco activity maintenance in environmental stress conditions—how many strategies. *Cell Mol. Biol. Lett.* 9 : 56–57.
- Singh, H. P., P. Mahajan, S. Kaur, D. R. Batish, and R. K. Kohli. 2013. Chromium toxicity and tolerance in plants. *Environ Chem Lett Springer.* 11 : 229-254
- Slamet, R. 2005. Pengolahan limbah organik (fenol) dan logam berat (Cr^{6+} atau Pt^{4+}) secara simultan dengan fotokatalis TiO_2 , $ZnO-TiO_2$ dan $CdS-TiO_2$. *Jurnal Makara Teknologi* Vol 9, No 2



- Sudibyaningsih, 2005. *Gulma air Eichhornia crassipes dan Salvinia molesta sebagai fitoremediator logam kadmium dan krom heksavalen dalam penanganan limbah cair*. Agris. Record. (Fakultas Biologi, Universitas Jenderal Soedirman, Purwokerto (Indonesia)).
- Suseno, H. dan S. M. Pangabea. 2007. Merkuri : spesiasi dan bioakumulasi pada biota laut. *Jurnal Teknologi Pengolahan Limbah*. Vol. 10 (1) : 66.
- Solomon, E. P., L. R. Berg, and D. W. Martin. 2008. *Biology*. Eight Edition. Belmont. Thomson. Page : 195
- University of Florida/IFAS Center for Aquatic and Invasive Plants. 2014. *Salvinia* Seg. http://idtools.org/id/aquariumplants/Aquarium_&_Pond_Plants_of_the_World/key/Aquarium_&_Pond_Plants/Media/Html/Fact_sheets/salvinia.html. Diakses 19 Agustus 2014
- Vajpayee, P., R. D. Tripathi, U. N. Rai, M.B. Ali, S.N. Singh. 2000. Chromium (VI) accumulation reduces chlorophyll biosynthesis, nitrate reductase activity and protein content in Nymphaea alba L. *Chemosphere* 41:1075–82,
- Wang, W., B. Vinocur, and A. Altman. 2003. Plant responses to drought, salinity and extreme temperatures: toward genetic engineering for stress tolerance. *Planta* 218, 1–14.
- Whitford, D. 2005. *Proteins : Structure and Function*. West Sussex. John Wiley & Sons, Ltd. Page : 14
- Whiterman, J. B. and P. M. Room. 1991. Temperatures lethal to Salvinia molesta Mitchell. *Aquat. Bot.* 40, 27–35.
- Widowati, W., Sastiono A., dan Jusuf R. R. 2008. *Efek toksik logam pencegahan dan penanggulangan pencemaran*. Penerbit Andi. Yogyakarta.
- Yuliani, D. 2009. *Penentuan kadar logam mangan (Mn) dan kromium (Cr) dalam air minum hasil penyaringan yamaha water purifier dengan metode spektrofotometri serapan atom*. Skripsi Departemen Kimia Fakultas MIPA. Universitas Sumatera Utara Medan