

DAFTAR PUSTAKA

- Ahmad, P. 2016. *Plant Metal Interaction: Emerging Remediation Techniques*. Elsevier. Page 162-164.
- Akinbile, C.O. and Yusoff, M.S. 2012. Assessing Water Hyacinth (*Eichhornia Crassipes*) And Lettuce (*Pistia Stratiotes*) Effectiveness In Aquaculture Wastewater Treatment. *International Journal of Phytoremediation*. 14 (3) Pp. 201-211
- Alvarez, B. and Radi, R. 2003. Peroxynitrite reactivity with amino acids and proteins. *Amino Acids* (25) Pp. 295-311
- Arnon, D. I. 1949. Copper enzymes in isolated chloroplasts; polyphenol-oxidase in Beta vulgaris. *Plant Physiol*. 24:1-15
- Badan Standarisasi Nasional. 2009. *Cara Uji Krom Total Secara Spektrofotometri Serapan Atom (SNI 6989. 17 : 2009)*. BSN, Jakarta
- Balai Lingkungan Hidup. 2016. *Peraturan Gubernur Daerah Istimewa Yogyakarta Nomor 7*. <http://blh.jogjapro.go.id/po-content/uploads/Perda-No-7-tahun-2016-ttg-Baku-Mutu-Air-Limbah.pdf>. Diakses pada tanggal 5 Januari 2017
- CABI. 2015. *Pistia stratiotes* (water lettuce). <http://www.cabi.org/isc/datasheet/41496>. Diakses pada tanggal 15 Februari 2017
- Cervantes, Carlos., Campos-Garc, J., Devars, S., Gutie"rrez-Corona, F., Loza-Tavera, H., Torres-Guzma"n, J. C., Moreno-Sa"nchez, R. 2001. Interactions of chromium with microorganisms and plants. *FEMS Microbiology Reviews* (25) Pp. 335-347
- Chakraborty, S. 2015. Environmental Sustainability In Wastewater Treatment By Phytoremediation With *Pistia Stratiotes* L. (Water Lettuce) In East Kolkata Wetland. *International Journal Of Bio-Resource, Environment And Agricultural Sciences (IJBES)*. 1(4) Pp. 132-139
- Crawford, R. L. and Crawford, D. L. 1996. *Bioremediation: Principles and Applications*. Cambridge University Press, USA. PP. 318-320
- Dhir, B. Nasim, S.A. Sharmila P. and Saradhi P.P. 2010. Heavy Metal Removal Potential Of Dried *Salvinia* Biomass. *International Journal Of Phytoremediation*. 12:133-141
- Geller, K. Goswami, D. Belani, R.. Beard. K. Wehner, E. 2009. *Phytotechnology Technical And Regulatory Guidance And Decision Trees*, Revised. The Interstate Technology & Regulatory Council Phytotechnologies Washington, DC
- Ghasemi, H., Rostampour, F., Ranjbar, A.. 2013. The Role of Oxidative Stress in Metals Toxicity/ Mitochondrial Dysfunction as a Key Player. *Galen Medical Journal*. 3(1) Pp. 2-13
- González, C. I., Maine, M. A., Cazenave, J., Sanchez, G. C., Benavides, M. P. 2014. Physiological and biochemical responses of *Eichhornia crassipes* exposed to Cr (III). *Environ Sci Pollut Res*.
- Herawati, P. 2015. *Efek Krom Pada Kandungan Klorofil dan Protein Daun Salvinia molesta Mitchell*. Skripsi. Fakultas Biologi UGM

- Holme, D.J. and Peck H.1998.*Analytical Biochemistry: Third Edition*. Pearson Education. England. Pp.36
- Kaul, S. N. Nandy, T., Szpyrkowicz L. Gautam, A., Khanna, D.R.2005. *Wastewater Management: With Special Reference to Tanneries*. Discovery Publishing House, New Delhi. Pp. 12-17
- Kumar, A., Singh, N., Gupta, S., Joshi, P., Tiwari, S., and Swaroop, K.2015. *Phytoremediation Study and Effect of pH on Biomass Productivity of Eichhornia crassipes*. Management of Natural Resources in a Changing Environment. Capital Publishing Company. Pp 195
- Kemenperin.2015. *Perkembangan Ekspor Indonesia Berdasarkan Sektor*. <http://www.kemenperin.go.id/statistik/peran.php?ekspor=1>. Diakses pada tanggal 5 Januari 2017
- Koski, V.1950.Chlorophyll formation in seedlings of Zea mays.*Arch. Biochem. Biophys.* 29:339-343
- Lambers, H., Chapin III, F.S., Pons, T.L.2008.*Plant Physiological Ecology: Second Edition*.Spinger, USA. Pp 127
- Li, Q.Chen B. Lin, P. Zhou, J.Zhan, J. Shen, Q.And Pan, X. 2016. Adsorption of Heavy Metal from Aqueous Solution By Dehydrated Root Powder of Long-Root Eichhornia Crassipes. *International Journal Of Phytoremediation*.18(2): 103-109
- Ling, T.Y., Srikanan, R., Kho, C.P.,and Lee,Nyanti.2010. Organic Matter, Nutrients and Trace Metals of Serin River. *World Applied Sciences Journal*. 8 (4): 496-502.
- Lymar, S., V., Khairutdinov, R. F., and Hurst, J.K. 2003. Hydroxyl Radical Formation by O-O Bond Homolysis in Peroxynitrous Acid. *Inorg. Chem* (42) Pp. 5259-5266
- Maine,M.A. Hadad,H.R. Sanchez, G.Caffaratti,S. and Pedro, M.C. 2016. Kinetics of Cr(III) and Cr(VI) removal from water by two floating macrophytes. *International Journal of Phytoremediation*.18(3): 261–268
- Manahan, S.E.2003. *Toxicological chemistry and biochemistry: 3rd edition*.CRC Press LLC.USA.Pp.232
- Mishra,V.K. and Tripathi, B.D.2009.Accumulation of chromium and zinc from aqueous solutions using water hyacinth (Eichhornia crassipes). *Journal of Hazardous Materials*.164:1059–1063
- Mwinyihija, M. 2010. *Ecotoxicological Diagnosis in the Tanning Industry*. Springer, New York. Pp.2-5
- Niir.2009.*Board Of Consultants & Engineers: Leather Processing & Tanning Technology Handbook*.National Institute of industrial Research, India. Pp.28-29
- Prado, C., Rodríguez-Montelongo, L., González, J.A., Pagano, E.A., Hilal, M., Prado, F.E.2010.Uptake of chromium by Salvinia minima: Effect on plant growth, leaf respiration and carbohydrate metabolism. *Journal of Hazardous Materials* (177) Pp. 546–553
- Prado, C., Rosa, M., Pagano, E., Prado, F.2013. Metabolic interconnectivity among alternative respiration, residual respiration, carbohydrates and phenolics in leaves of Salvinia minima exposed to Cr(VI). *Environmental and Experimental Botany* (87) Pp. 32– 38

- Purwaningsih, Isti. 2003. Penyusunan Strategi Pengembangan Industri Penyamakan Kulit Di Yogyakarta. *Jurnal Teknik Perindustrian*. 4 (3): 155 – 168
- Puspita, U.R. Siregar, A.S. dan Hidayati, N.V. 2011. Kemampuan Tumbuhan Air Sebagai Agen Fitoremediator Logam Berat Kromium (Cr) Yang Terdapat Pada Limbah Cair Industri Batik. *Berkala Perikanan Terubuk*. 39(1): 58 –64
- Putri, Y.D. Holik, H. A. Musfiroh, I. Aryanti A. D. 2014. Pemanfaatan Tumbuhan Eceng-Ecengan (Ponteridaceae) sebagai Agen Fitoremediasi dalam Pengolahan Limbah Krom. *Indonesian Journal of Pharmaceutical Science and Technology*. 1: 20
- Poljsak, B., Pócsi, I., Raspor, P., and Pesti, M. 2010. Interference of chromium with biological systems in yeasts and fungi: a review. *Journal of Basic Microbiology* 50:21–36
- Qaisar, M. Ping, Z. Rehan, S.M. Ejaz Ul, I., Rashid, A.M. Yousaf, H. 2005. Anatomical Studies on Water Hyacinth (*Eichhornia crassipes* (Mart.) Solms) Under The Influence of Textile Wastewater. *Journal of Zhejiang University SCIENCE*. 6B(10):991-998
- Sari, A.M., Rachmadiarti, F. dan Fitrihidayati, H. 2014. Pengaruh Cekaman Kromium Pada Limbah Cair Batik Terhadap Pertumbuhan *Eichornia Crassipes* Dan *Salvinia Molesta*. *Lenterabio*. 3(1): 67–71
- Setiyono dan Yudo, S. 2014. *Daur Ulang Air Limbah Industri Penyamakan Kulit*. Bppt Press, Jakarta Pusat. Hal 13-21
- Shanker, A. K., Cervantes, C., Loza-Tavera, H., Avudainayagam, S. 2005. Chromium toxicity in plants. *Environment International*. 31:739-753
- Shanker, A. K., Djanaguiraman, M., and Venkateswarlu, B. 2009. Chromium interactions in plants: current status and future strategies. *The Royal Society of Chemistry* 1: 375–383
- Singh, H. P., Mahajan, P., Kaur, S., Batish, D. R., Kohli, R. K. 2013. Chromium toxicity and tolerance in plants. *Environ Chem Lett* 11: 229–254
- Slade, P. G., Hailer, M. K., Martin, B. D., and Sugden, K. D. 2005. Guanine-Specific Oxidation of Double-Stranded DNA by Cr(VI) and Ascorbic Acid Forms Spiroiminodihydantoin and 8-Oxo-2'-deoxyguanosine. *Chem Res Toxicol*; 18(7): 1140–1149
- Solomon, E. P., Berg, L. R., and Martin, D. W. 2008. *Biology: Eight Edition*. Thomson Brooks/Cole, USA. Pp 193-194.
- Sunaryo, Ign. dan Sutiasmi, Sri. 2010. Pengolahan Limbah Cair Laboratorium Riset Penyamakan Kulit di Balai Besar Kulit, Karet dan Plastik (BBKKP). *Jurnal Riset Industri*. 4(3): 61
- Tchounwou, P. B., Yedjou, C. G., Patlolla, A.K., and Sutton, D. J. 2012. Heavy Metals Toxicity and the Environment. *EXS* (101) Pp. 133–164.
- Twyman, R. M. 2005. *Wet Digestion*. Elsevier. Pp 146-152
- USDA, NRCS. 2017. *The Plants Database*. (<http://plants.usda.gov>). National Plant Data Team, Greensboro, NC 27401-4901, USA. Diakses pada tanggal 15 Februari 2017
- Vajpayee, P., Tripathi, R.D., Rai, U.N., Ali, M.B., Singh, S.N. 2000. Chromium (VI) accumulation reduces chlorophyll biosynthesis,

- nitrate reductase activity and protein content in *Nymphaea alba* L. *Chemosphere* 41:1075-1082
- Vesel'Y ,T. Tlusto's, P., And Sz'akov'A, J. 2011. The Use Of Water Lettuce (*Pistia Stratiotes* L.) For Rhizofiltration Of A Highly Polluted Solution By Cadmium And Lead. *International Journal Of Phytoremediation*.13:859–872
- Victor, K.K. Séka, Y. Norbert, K.K. Sanogo, T.A. and & Celestin, A.B. 2016. Phytoremediation of wastewater toxicity using water hyacinth (*Eichhornia crassipes*) and water lettuce (*Pistia stratiotes*). *International Journal of Phytoremediation*.18(10): 949–955
- Villamagna, A.M. 2009. *Ecological effects of water hyacinth (Eichhornia crassipes) on Lake Chapala, Mexico*. (Dissertation) Faculty of the Virginia Polytechnic Institute and State University