



DAFTAR PUSTAKA

- Afrina, A., Khairullah, K. and Helmi, H., 2020. Analisis Kualitas air Drainase Irigasi Langkahan-Jambo Aye Akibat Pengaruh Pasang Surut Untuk Budidaya Padi Sawah Di Meunasah Tingkeum Kecamatan Madat Kabupaten Aceh Timur. *Jurnal Ilmiah Mahasiswa Pertanian*, 5(1):572-577. <https://doi.org/10.17969/jimfp.v5i1.13822>
- Arimbi, A., 2017. "Efektivitas Tanaman Melati Air (*Aquarius palaefolius*) Dalam Menurunkan Kadar BOD (Biological Oxygen Demand) Dan COD (Chemical Oxygen Demand) Serta TSS (Total Suspended Solid) Pada Limbah Cair Tempat Pemotongan Ayam Di Kecamatan Delitua Kabupaten Deli Serdang". Skripsi. Fakultas Kesehatan Masyarakat. Universitas Sumatera Utara. Medan.
- Balali-Mood, M., Naseri, K., Tahergorabi, Z., Khazdair, M.R. and Sadeghi, M., 2021. Toxic mechanisms of five heavy metals: mercury, lead, chromium, cadmium, and arsenic. *Frontiers in pharmacology*, 12(1-19). <https://dx.doi.org/10.3389%2Ffphar.2021.643972>
- Batool, R., Hameed, M., Ashraf, M., Fatima, S., Nawaz, T. and Ahmad, M.S.A., 2014. Structural and functional response to metal toxicity in aquatic *Cyperus alopecuroides* Rottb. *Limnologica*, 48 : 46-56. <https://doi.org/10.1016/j.limno.2014.06.002>
- Briffa, J., Sinagra, E. and Blundell, R. 2020. Heavy metal pollution in the environment and their toxicological effects on humans. *Heliyon*, 6(9):1-26. <https://doi.org/10.1016/j.heliyon.2020.e04691>
- Danouche, M., El Ghachoui, N. & El Arroussi, H. (2021). Phytoremediation mechanisms of heavy metals using living green microalgae: physicochemical and molecular approaches for enhancing selectivity and removal capacity. *Heliyon*, 7(7) : 1-11. <https://doi.org/10.1016/j.heliyon.2021.e07609>
- Evangelista, F. and Hasan, Z., 2021. Effectiveness of rough horsetail plant (*Equisetum hyemale*) and Mexican sword plant (*Aquarius paleafolius*) as a phytoremediation agent in reducing cadmium metal (Cd) in the upper Citarum River segment of Dayeuhkolot. *International Journal of Fisheries and Aquatic Studies*. 9(2): 285-290 . <https://doi.org/10.22271/fish.2021.v9.i2d.2466>
- Feng, L., Raza, M.A., Li, Z., Chen, Y., Khalid, M.H.B., Du, J., Liu, W., Wu, X., Song, C., Yu, L. and Zhang, Z., 2019. The influence of light intensity and leaf movement on photosynthesis characteristics and carbon balance of soybean. *Frontiers in plant science*, 9 : 1952. <https://doi.org/10.3389/fpls.2018.01952>
- GBIF Secretariat (2021). *GBIF Backbone Taxonomy*. Checklist dataset <https://doi.org/10.15468/39omei> accessed via GBIF.org on 2022-04-06.
- Handajani, H., Widanarni, W., Budiardi, T. and Setiawati, M., 2021. Phytoremediation by *Aquarius palaefolius* to Reduce Nitrogen and Phosphate Waste of Intensive Culture *Anguilla bicolor* in Recirculation Aquaculture Systems. *IJASEIT*, 11(2) : 783-790.
- Hounkpe, S.P., Crapper, M., Sagbo, A., Adjovi, E. and Aina, M.P., 2022. Influence of pH on Water Hyacinth Ponds Treating and Recycling Wastewater. *Journal of Water Resource and Protection*, 14(2) : 86-99. <https://doi.org/10.4236/jwarp.2022.142006>



- Kadir, A., Abdullah, S.R.S., Othman, B.A., Hasan, H.A., Othman, A.R., Imron, M.F., Ismail, N.I. & Kurniawan, S.B., 2020. Dual function of *Lemna minor* and *Azolla pinnata* as phytoremediator for Palm Oil Mill Effluent and as feedstock. *Chemosphere*, 259:1-13.
- Khairnar, S.O., Mandal, A., Tyagi, A. and Sharma, S., 2020. Comparative efficacy of manures and fertilizers on growth performance of amazon sword plant, *Aquarius bleheri*. *Journal of Experimental Zoology, India*, 23(1) : 1-5.
- Kumari, S., Amit, Jamwal, R., Mishra, N. & Singh, D. K. 2020. Recent developments in environmental mercury bioremediation and its toxicity: A review. *Environmental Nanotechnology, Monitoring and Management*, 13: 1-14. <https://doi.org/10.1016/j.enmm.2020.100283>
- Lyu, C., Liu, R., Li, X., Song, Y. and Gao, H., 2021. Degradation of dissolved organic matter in effluent of municipal wastewater plant by a combined tidal and subsurface flow constructed wetland. *Journal of Environmental Sciences*, 106 : 171-181. <https://doi.org/10.1016/j.jes.2020.12.018>
- Marklund, S. and Marklund, G., 1974. Involvement of the superoxide anion radical in the autoxidation of pyrogallol and a convenient assay for superoxide dismutase. *European journal of biochemistry*, 47(3) : 469-474. <https://doi.org/10.1111/j.1432-1033.1974.tb03714.x>
- Maylani, E.D., Yunianti, R. and Wardhana, W., 2020, July. The Effect of leaf surface character on the ability of water hyacinth, *Eichhornia crassipes* (Mart.) Solms. to transpire water. *In IOP Conference Series: Materials Science and Engineering*, 1(902) : 1-8. [DOI 10.1088/1757-899X/902/1/012070](https://doi.org/10.1088/1757-899X/902/1/012070)
- Mitra, S., Chakraborty, A.J., Tareq, A.M., Emran, T.B., Nainu, F., Khusro, A., Idris, A.M., Khandaker, M.U., Osman, H., Alhumaydhi, F.A. and Simal-Gandara, J., 2022. Impact of heavy metals on the environment and human health: Novel therapeutic insights to counter the toxicity. *Journal of King Saud University-Science*, 34(3) : 1-21. <https://doi.org/10.1016/j.jksus.2022.101865>
- Navvab, M. 2011. Plant Lighting Aspects for Plant Growth in Controlled Environments. *commission internationale de l'eclairage*, 1(1) : 430-440.
- Nelson, M., Alling, A., Dempster, W.F., Van Thillo, M. and Allen, J., 2003. Advantages of using subsurface flow constructed wetlands for wastewater treatment in space applications: Ground-based mars base prototype. *Advances in Space Research*, 31(7) : 799-1804. [https://doi.org/10.1016/S0273-1177\(03\)00013-9](https://doi.org/10.1016/S0273-1177(03)00013-9)
- Nhan, N.T.T. and Tuong, L.Q., 2020, December. Potential of *Aquarius Cordifolius* and *Vallisneria Natans* in constructed wetlands for the removal of water pollution from shrimp farm effluent. *In IOP Conference Series: Materials Science and Engineering*, 1(991) : 1-12. 012034. [doi:10.1088/1757-899X/991/1/012034](https://doi.org/10.1088/1757-899X/991/1/012034)
- Nur, F. and Slamet, I. 2020. The phytoremediation of *Aquarius palaefolius* (Water Jasmine) in reducing BOD and COD of liquid waste-Batik Industry "X" in Pekalongan. *GSC Biological and Pharmaceutical Sciences*, 12(3) : 215-222. <https://www.gsconlinepress.com/journals/gscbps>
- Pandey, A.K., Zorić, L., Sun, T., Karanović, D., Fang, P., Borišev, M., Wu, X., Luković, J. and Xu, P., 2022. The Anatomical Basis of Heavy Metal Responses in Legumes and Their Impact on Plant–Rhizosphere Interactions. *Plants*, 11(19) : 1-18. <https://doi.org/10.3390/plants11192554>



- Prasetya, A., Prihutami, P., Warisaura, A. D., Fahrurrozi, M. & Murti, P. H. T. B. 2020. Characteristic of Hg removal using zeolite adsorption and *Aquarius palaefolius* phytoremediation in subsurface flow constructed wetland (SSF-CW) model. *Journal of Environmental Chemical Engineering*, 8(3) : 1-8. <https://doi.org/10.1016/j.jece.2020.103781>
- Priya, M., Balakrishnan, V., Kiruthika Lakshmi, A., Aruna, R. and Ravindran, K.C., 2014. Mercury induced oxidative stress of antioxidants in *Clitoria ternatea* L. *International Letters of Natural Sciences*, 18 : 1-8. <http://dx.doi.org/10.18052/www.scipress.com/ILNS.23.1>
- Punz, W.F. and Sieghardt, H., 1993. The response of roots of herbaceous plant species to heavy metals. *Environmental and experimental Botany*, 33(1) : 85-98.
- Raychaudhuri, S.S., Pramanick, P., Talukder, P. and Basak, A., 2021. Polyamines, metallothioneins, and phytochelatins—Natural defense of plants to mitigate heavy metals. *Studies in Natural Products Chemistry*, 69 : 227-261. <https://doi.org/10.1016/B978-0-12-819487-4.00006-9>
- Rezania, S., Taib, S.M., Din, M.F.M., Dahalan, F.A. and Kamyab, H., 2016. Comprehensive review on phytotechnology: heavy metals removal by diverse aquatic plants species from wastewater. *Journal of hazardous materials*, 318 : 587-599. <http://dx.doi.org/10.1016/j.jhazmat.2016.07.053>
- Río, L.A.D., Corpas, F.J., López-Huertas, E. and Palma, J.M., 2018. *Plant superoxide dismutases: function under abiotic stress conditions*. In *Antioxidants and antioxidant enzymes in higher plants*. Springer, Cham. http://dx.doi.org/10.1007/978-3-319-75088-0_1
- Rochmah, V., Prasetya, A.T. and Sulistyaningsih, T., 2017. Adsorpsi Ion Logam Pb²⁺ menggunakan Limbah Serbuk Gergaji kayu Mahoni. *Indonesian Journal of Chemical Science*, 6(2) : 168-172.
- Sahu, G.K., Upadhyay, S. and Sahoo, B.B., 2012. Mercury induced phytotoxicity and oxidative stress in wheat (*Triticum aestivum* L.) plants. *Physiology and Molecular Biology of Plants*, 18 : 21-31. <https://doi.org/10.1007%2Fs12298-011-0090-6>
- Sari, M.O.S.K., Hastuti, E.D. and Darmanti, S., 2019. Potential of water jasmine (*Aquarius palaefolius*) in phytoremediation of Fe in leachate jatibarang landfill. *Biosaintifika: Journal of Biology & Biology Education*, 11(1) : 55-61. <https://doi.org/10.15294/biosaintifika.v11i1.17447>
- Schück, M. and Greger, M., 2020. Plant traits related to the heavy metal removal capacities of wetland plants. *International journal of phytoremediation*, 22(4) : 427-435. <https://doi.org/10.1080/15226514.2019.1669529>
- Song, S., Wang, P., Liu, Y., Zhao, D., Leng, X. & An, S. 2019. Effects of *Oenanthe javanica* on Nitrogen Removal in Free-Water Surface Constructed Wetlands under Low-Temperature Conditions. *International Journal of Environmental Research and Public Health*, 16: 1-19. [doi:10.3390/ijerph16081420](https://doi.org/10.3390/ijerph16081420)
- Stephenie, S., Chang, Y.P., Gnanasekaran, A., Esa, N.M. and Gnanaraj, C., 2020. An insight on superoxide dismutase (SOD) from plants for mammalian health enhancement. *Journal of Functional Foods*, 68 : 1-10. <https://doi.org/10.1016/j.jff.2020.103917>
- Sukmarani, D., Proklamasiningsih, E., Susanto, A.H., Ardli, E.R., Sudiana, E. & Yani, E., 2021. Superoxide dismutase (SOD) activity of *Ceriops zippeliana*



in Segara Anakan Cilacap (Indonesia) under heavy metal accumulation.
Biodiversitas Journal of Biological Diversity, 22(12) : 1-9.
<https://doi.org/10.1016/j.jff.2020.103917>

- Syakir, M., Maslahah, N. and Januwati, M., 2008. Pengaruh Salinitas terhadap Pertumbuhan, Produksi dan Mutu Sambiloto (*Andrographis paniculata* Nees). *Jurnal Buletin Littro*, 19(2) : 129-137.
- Tootoonchi, M., Gettys, L.A., Thayer, K.L., Markovich, I.J., Sigmon, J.W. and Sadeghibaniani, S., 2020. Ecotypes of aquatic plant *Vallisneria americana* tolerate different salinity concentrations. *Diversity*, 12(2) : p.65.
<https://doi.org/10.3390/d12020065>

Ulumudin, M.M. and Purnomo, T., 2022. Analisis Kandungan Logam Berat Timbal (Pb) pada Tumbuhan Papirus (*Cyperus papyrus* L.) di Sungai Wangi Pasuruan. *LenteraBio: Berkala Ilmiah Biologi*, 11(2) : 273-283.
<https://doi.org/10.26740/lenterabio.v11n2.p273-283>

Vymazal, J., 2022. The Historical Development of Constructed Wetlands for Wastewater Treatment. *Land*, 11(174) : 1-29.
<https://doi.org/10.3390/land11020174>

Younus, H., 2018. Therapeutic potentials of superoxide dismutase. *International journal of health sciences*, 12(3) : 88.