



DAFTAR PUSTAKA

- Aibuedefe Aisien, F. and Aisien, T., 2021, Phytokinetic of Water Hyacinth (Eichhornia crassipes) Treated Crude Oil-Contaminated Wastewater, *J. Glob. Ecol. Environ.*, 13, 122–132.
- Alliluev, I., Minkina, T., Ahmad, I., Mandzhieva, S., Chernikova, N., Chaplygin, V., Vechkanov, E., Rajput, V.D., and Wong, M.H., 2025, Phytoremediation of heavy metal-contaminated sites: mechanisms, limitations and recent prospects, *Physiol. Mol. Biol. Plants.*.
- Aqdas, A. and Hashmi, I., 2023, Role of water hyacinth (Eichhornia crassipes) in integrated constructed wetlands: a review on its phytoremediation potential, *Int. J. Environ. Sci. Technol.*, 20, 2259–2266.
- Ayyappan, D., Sathiyaraj, G., and Ravindran, K.C., 2016, Phytoextraction of heavy metals by *Sesuvium portulacastrum* l. a salt marsh halophyte from tannery effluent, *Int J Phytoremediation*, 18, 453–459.
- Bennett, V. and MarkManuel, D.P., 2024, Winkler Titration Assessment of Biochemical Oxygen Demand (BOD5) in Oka Creek, Toru-Orua, Bayelsa State, *Asian J. Appl. Chem. Res.*, 15, 147–156.
- Cozma, P., Roşca, M., Minuţ, M., and Gavrilăscu, M., 2025, Phytoremediation: A sustainable and promising bio-based approach to heavy metal pollution management, *Sci. Total Environ.*, 1001, .
- Feng, N.-X., Yu, J., Zhao, H.-M., Cheng, Y.-T., Mo, C.-H., Cai, Q.-Y., Li, Y.-W., Li, H., and Wong, M.-H., 2017, Efficient phytoremediation of organic contaminants in soils using plant–endophyte partnerships, *Sci. Total. Environ.*, 583, 352–368.
- Hapsari, J.E., Amri, C., Suyanto, A., Lingkungan, J.K., Yogyakarta, K., and Tatabumi, J., 2018, Efektivitas Kangkung Air (Ipomoea aquatica) sebagai Fitoremediasi dalam Menurunkan Kadar Timbal (Pb) Air Limbah Batik, *Jurnal Kesehatan Lingkungan*, 9, 172–177.
- Hartanti, P.I., Tunggul, A., Haji, S., and Wirosodarmo, R., 2014, Pengaruh Kerapatan Tanaman Eceng Gondok (Eichhornia Crassipes) Terhadap Penurunan Logam Chromium Pada Limbah Cair Penyamakan Kulit, *Jurnal Sumber Daya Alam dan Lingkungan*, 32.
- Kokavcová, A., Bokhari, S.N.H., Mijovilovich, A., Morina, F., Lukačová, Z., Kohanová, J., Lux, A., and Küpper, H., 2023, Copper and zinc accumulation, distribution, and tolerance in *Pistia stratiotes* L.; revealing the role of root caps, *Aquat. Toxicol.*, 264, 106731.
- Lestari, A. and Samsunar, S., 2021, Analisis Kadar Padatan Tersuspensi Total (TSS) Dan Logam Krom Total (Cr) Pada Limbah Tekstil Di Dinas Lingkungan Hidup Sukoharjo, *Indonesian Journal of Chemical Research*, 32–41.
- Li, J., Luo, G., He, L., Xu, J., and Lyu, J., 2018, Analytical Approaches for Determining Chemical Oxygen Demand in Water Bodies: A Review, *Crit Rev Anal Chem*, 48, 47–65.
- de Lima, D.V.N., Filho, C.M.L., Pacheco, A.B.F., and de Oliveira e Azevedo, S.M.F., 2022, Seasonal variation in the phytoremediation by *Pontederia crassipes* (Mart) Solms (water hyacinth) and its associated microbiota, *Ecol*



- Eng*, 183, 106744.
- Marín-Muñiz, J.L., Hernández, M.E., Gallegos-Pérez, M.P., and Amaya-Tejeda, S.I., 2020, Plant growth and pollutant removal from wastewater in domiciliary constructed wetland microcosms with monoculture and polyculture of tropical ornamental plants, *Ecol Eng*, 147, 105658.
- Mirjankar, M.R., Pattar, S. V., Gaddigal, A.T., Shivappa, P., Poojari, P.B., Ganeshkar, M.P., Goder, P.H., and Kamanavalli, C.M., 2023, Phytoremediation of Copper Contaminated Water Using *Pistia stratiotes* and Emphasis of Thermal Stability in Response to Metal Stress, *Water Conserv. Sci. Eng.*, 8, 24.
- Mohanty, C., Kumar, V., Bisoi, S., M., A.S.J., Das, P.K., Farzana, Ahmad, M., Selvaraj, C.I., Ratha, B.N., Nanda, S., and Gangwar, S.P., 2024, Ecological implications of chromium-contaminated effluents from Indian tanneries and their phytoremediation: a sustainable approach, *Environ Monit Assess*, 196, 995.
- Mondal, N.K. and Nayek, P., 2020, Hexavalent chromium accumulation kinetics and physiological responses exhibited by *Eichhornia* sp. and *Pistia* sp., *Int. J. Environ. Sci. Technol.*, 17, 1397–1410.
- Mukherjee, S., Leri, A.C., Bandaranayaka, C., Vázquez-Núñez, E., Barros, R., Khan, A.H.A., Zhou, P., Zhang, T., Bernal, M.P., Clemente, R., and Bolan, N., 2025, Sustainable management of post-phytoremediation biomass, *Energy Ecol Environ.*,
- Ntakyiruta, P., Briton, B.G.H., Nsavyimana, G., Adouby, K., Nahimana, D., Ntakimazi, G., and Reinert, L., 2022, Optimization of the phytoremediation conditions of wastewater in post-treatment by *Eichhornia crassipes* and *Pistia stratiotes*: kinetic model for pollutants removal, *Environ. Technol. (U. K.)*, 43, 1805–1818.
- Oktarani, T., Bahua, H., Wijayanti, P., Rizki Ariyani, N., Renaldy, N.A., Nurhayati Djarot, I., and Widyastuti, N., 2023, Karakteristik Limbah Cair Proses Produksi Kulit Sintetis dari Miselium Jamur Wastewater Characteristics in the Synthetic Leather Production Process from Mushroom Mycelium, *Jurnal Teknologi Lingkungan*, 24, 250–257.
- Pang, Y.L., Quek, Y.Y., Lim, S., and Shuit, S.H., 2023, Review on Phytoremediation Potential of Floating Aquatic Plants for Heavy Metals: A Promising Approach, *Sustainability (Switzerland)* , 15, .
- Rahardjo, D. and Prasetyaningsih, A., 2021, Effect of Leather Industry Liquid Waste Disposal Activities Against Chromium Pollutant Profile in the Environment and their Accumulation in Molluscs, Fish and Rice Along the Downstream Opak River, *Prosiding Seminar Nasional UNIMUS*, 4, .
- Rahmatia Huntuyungo, D., Jusuf, H., and Septian Maksam, T., 2025, Perbedaan Efektivitas Tanaman Kayu Apu Dan Kangkung Air Sebagai Fitoremediator Dalam Menurunkan Kadar Kromium Total (Cr) Pada, *Jurnal Kolaboratif Sains*, 8, 2711–2719.
- Rai, M.K., Kumar, M., Singhanian, R.R., and Giri, B.S., 2025, Tannery waste management and cleaner production of leather in beam house and tanning section: A review, *Bioresour Technol Rep*, 30, 102116.



- Rane, N.R., Patil, S.M., Chandanshive, V. V., Kadam, S.K., Khandare, R. V., Jadhav, J.P., and Govindwar, S.P., 2016, Ipomoea hederifolia rooted soil bed and Ipomoea aquatica rhizofiltration coupled phytoreactors for efficient treatment of textile wastewater, *Water Res*, 96, 1–11.
- Reyes-Serrano, A., López-Alejo, J.E., Hernández-Cortázar, M.A., and Elizalde, I., 2020, Removing contaminants from tannery wastewater by chemical precipitation using CaO and Ca(OH)₂, *Chin J Chem Eng*, 28, 1107–1111.
- Sahoo, A., Chhotaray, S.P., Meher, I., Behera, S.P., Pal, A., Meena, M., Swapnil, P., Yadav, A., and Bhardwaj, R., 2025, Phytoremediation for a sustainable future: Integrating plant based strategies in soil and wastewater remediation, *Bioresour Technol Rep*, 31, .
- Samal, K., Kar, S., Trivedi, S., and Upadhyay, S., 2021, Assessing the impact of vegetation coverage ratio in a floating water treatment bed of Pistia stratiotes, *SN Appl Sci*, 3, 120.
- Singh, H., Tripathi, V., Alka, Joshi, H.C., Kumar, G., Pant, G., Hossain, K., Ahmad, A., and Alshammari, M.B., 2023, Water hyacinth (*Eichhornia crassipes* and *Epipremnum aureum*) - a potent tool for the removal of cadmium and chromium from industrial discharges, *Desalin. Water Treat.*, 315, 432–445.
- Singh, J., Kumar, V., Kumar, P., and Kumar, P., 2022, Kinetics and prediction modeling of heavy metal phytoremediation from glass industry effluent by water hyacinth (*Eichhornia crassipes*), *Int. J. Environ. Sci. Technol.*, 19, 5481–5492.
- Sun, D., Zhang, H., Pan, G., Zhang, Z., Xing, J., Li, J., Gao, Y., Chen, W., and Lu, X., 2025, Impact of Tetracycline Stress on Water Quality and Rhizosphere Microbial Communities of *Eichhornia crassipes*: Implications for Bioremediation, *Microorganisms*, 13, .
- Tadesse, A.T. and Seyoum, L.A., 2015, Evaluation of selected wetland plants for removal of chromium from tannery wastewater in constructed wetlands, Ethiopia, *Afr J Environ Sci Tech*, 9, 420–427.
- 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*), *Int J Phytoremediation*, 18, 949–955.
- Violita, L., Apriani, I., and Sulastri, A., 2022, Kemampuan Tanaman Kangkung Air Dalam Menurunkan Krom Heksavalen (Cr 6+) Pada Limbah Cair Sablon, *Jurnal Rekayasa Lingkungan Tropis*, 3, 37–44.
- Wu, D., Hu, Y., and Liu, Y., 2022, A Review of Detection Techniques for Chemical Oxygen Demand in Wastewater, *Am J Biochem Biotechnol*, 18, 23–32.
- Xu, J., Nicholas, R., Wang, Y., Yang, W., Zhu, J., and Zheng, Z., 2024, Enhanced aquaculture wastewater treatment using water spinach (*Ipomoea aquatica* Forsskal) and exogenous compound bacteria, *J. Water Process Eng.*, 63, 105521.
- Yadav, K., Kumar, D., Gupta, A.K., Gupta, B., Tyagi, P., Sharma, A., Patra, Prasenjit Kumar, Patra, Prasanta Kumar, and Chaitanya, A.K., 2025, Heavy metals contamination and their phytoremediation in soil and water for sustainable environmental restoration, *Discov. Environ.*, 3, 201.



- Zhang, Y., Han, Y., Xie, E., Wang, X., Yang, Y., and Jia, F., 2024, Phytoremediation performance of mixed planting patterns and the associated rhizosphere microbial community in pilot-scale constructed wetlands, *Chemosphere*, 361, 142482.
- Zhao, C. and Chen, W., 2019, A review for tannery wastewater treatment: some thoughts under stricter discharge requirements, *Environ. Sci. Pollut. Res.*, 26, 26102–26111.
- Zhilkina, T., Gerasimova, I., Babich, T., Kanapatskiy, T., Sokolova, D., Kadnikov, V., and Kamionskaya, A., 2024, Evaluation of the Phytoremediation Potential of Aquatic Plants and Associated Microorganisms for the Cleaning of Aquatic Ecosystems from Oil Products, *Sustainability*, 16, 9288.