

DAFTAR PUSTAKA

- Acikgoz, C., Gul, U.D., Ozan, K. & Borazan, A.A., 2014. Degradation of Reactive Blue by The Mixed Culture of *Aspergillus versicolor* and *Rhizopus arrhizus* in Membrane Bioreactor (MBR) System. *Desalination and Water Treatment*, 57(8), pp.1-7.
- Aksu, Z. & Tezer, S., 2000. Equilibrium and Kinetic Modelling of Biosorption of Remazol Black B by *Rhizopus arrhizus* in a Batch System: Effect of Temperature. *Process Biochemistry*, Volume 36, pp.431-439.
- Ali, M.I.A., Khalil, N.N. & El-Ghany, M.N.A., 2012. Biodegradation of some Polycyclic Aromatic Hydrocarbons by *Aspergillus terreus*. *African Journal of Microbiology Research*, 6(16), pp.3783-3790.
- Andleeb, S., Atiq, N., Robson, G.D. & Ahmed, S., 2012. An Investigation of Anthraquinone Dye Biodegradation by Immobilized *Aspergillus flavus* in Fluidized Bioreactor. *Environmental Science and Pollution Research*, 19(5), pp.1728-1737.
- Apriyani, N., 2018. Industri Batik: Kandungan Limbah Cair dan Metode Pengolahannya. *Media Ilmiah Teknik Lingkungan*, 3(1), pp. 21-29.
- Atlas, R., 1946. *Handbook of Microbiological Media*. 3rd ed. Boca Raton: CRC Press.
- Awaluddin, R., Darah, I. & Ibrahim, C.O., 2001. Decolorization of Commercially Available Synthetic Dyes by White Rot Fungus *Phanerochaete chrysosporium* ME446 (ATCC 34541). *Proceeding NSF Workshop*. Kuala Lumpur, 2001.
- Azin, E. & Moghimi, H., 2018. Efficient Mycosorption of Anionic Azo Dyes by *Mucor circinelloides*: Surface Functional Groups and Removal Mechanism Study. *Journal of Environmental Chemical Engineering*, 6(4), pp.4114-4123.
- Aznur, B.S., Nisa, S.K. & Septiriono, W.A., 2022. Agen Biologis Potensial untuk Bioremediasi Logam Berat. *Jurnal Maiyah*, 1(4), pp.186-198.
- Badan Standarisasi Nasional. 2014. SNI 8027:3 Agens Pengendali Hayati (APH) - Bagian 3 : *Trichoderma* spp. Jakarta: Badan Standarisasi Nasional.
- Coulibaly, L., Gourene, G. & Agathos, N.S., 2003. Utilization Fungi of Biotreatment of Raw Wastewater. *African Journal of Biotechnology*, Volume 2, pp.620-630.
- Devi, B.L. & Haryanto, A.R., 2021. Pengaruh Beda Potensial dan Waktu Kontak terhadap Penurunan Kadar COD dan TSS pada Limbah Batik Menggunakan Metode Elektrokagulasi. *Jurnal Teknik Kimia USU*, 10(2), pp.63-69.
- Dewi, R.S. & Dwiputranto, U., 2012. Penggunaan Limbah Medium Tanah Jamur Tiram (*Pleurotus ostreatus*) dalam Penyerapan Warna Limbah Cair Batik. *Prosiding Seminar Nasional*, pp.172-176.
- Dewi, R.S., Kasiamdari, R.S., Martani, E. & Purwestri, Y.A., 2018a. Decolorization and Detoxification of Batik Dye Effluent Containing Indigosol Blue-04B

Using Fungi Isolated from Contaminated Dye Effluent. *Indonesian Journal of Biotechnology*, 23(2), pp.54-60.

Dewi, R.S., Kasiamdari, R.S., Martani, E. & Purwestri, Y.A., 2021. Mechanis, of Indigosol Blue 04B Batik Dye Wastewater Degradation by *Aspergillus* sp.3 and its Product Analysis. *Res. J. Biotechnol*, Volume 16, pp.34-42.

Dewi, R.S., Kasiamdari, R.S., Martani, E. & Purwestri, Y.A., 2018b. Bioremediation of Indigosol Blue 04B Batik Effluent by Indigenous Fungal Isolates, *Aspergillus* spp.. *Omni-Akuatika*, 14(2), pp. 11-20.

Dewi, R.S., Kasiamdari, R.S., Martani, E. & Purwestri, Y.A., 2019b. Optimization of The Condition for The Decolorization of Batik Wastewater by *Aspergillus* sp.3. *AIP Conference Proceedings*, 2094(1).

Dewi, R.S. & Lestari, S., 2010. Dekolorisasi Limbah Batik Tulis Menggunakan Jamur Indegenous Hasil Isolasi pada Konsentrasi Limbah yang Berbeda. *Molekul*, 5(2), pp.75-82.

Dewi, R.S., Ulfimaturahmah, F.A. & Khotimah, K., 2019a. The Decolorization Effect by *Aspergillus* sp.3 on Goldfish Opercular Beats. *Journal of Microbial Systematic and Biotechnology*, 1(2), pp.18-26.

El-Rahim, W.M., El-Ardy, O.A.M. & Moawad, H., 2008. Aeration as a Factor in Textile Dye Bioremoval by *Aspergillus niger*. *African Journal of Biochemistry Research*, 2(1), pp.30-39.

Entristiana, C.M., Dewi, R.S. & Mumpuni, A., 2022. Textile Wastewater Decolorization by *Pleurotus ostreatus* in Organic Material Board Media. *Omni-Akuatika*, 18(1), pp.59-66.

Espinosa-Ortiz, E.J., Rene, E.R., Pakshirajan, K., van Hullebusch, E.D. & Lens, P.N.L., 2016. Fungal Pelleted Reactors in Wastewater Treatment: Applications and Perspectives. *Chemical Engineering Journal*, Volume 283, pp.553-571.

Fauzi, A.R. & Tuhu, A.R., 2018. Kombinasi Fenton dan Fotokatalis sebagai Alternatif Pengolahan Limbah Batik. *Journal Envirotek*, 10(1), pp.37-45.

Geser, D.M., LoBuglio, K.F. & Gueidan, C., 2015. Pezizomycotina: Eurotiomycetes. In: *Systematic and Evolution*. The Mycota, vol 78. Berlin: Springer, pp.121-141

Gao, D., Zheng, J., Yu, X., Dong, T. & Chen, S. 2014. Improved Lipid Accumulation by Morphology Engineering of Oleaginous Fungus *Mortierella isabellina*. *Biotechnology and Bioengineering*, 111(9), pp.1758-1766.

Haedar, N., Fahrudin, Abdullah, A., Syam, N.A. & Talessang, N.H. 2019. Dekolorisasi dan Degradasi Limbah Zat Warna Naftol oleh Jamur dari Limbah Industri Batik. *Jurnal Ilmu Alam dan Lingkungan*, 10(2), pp.1-8

- Hayat, H., Mahmood, Q., Pervez, A., Bhatti, Z.A. & Baig, S.A. 2015. Comparative Decolorization of Dyes in Textile Wastewater Using Biological and Chemical Treatment. *Separation and Purification Technology*, Volume 154, pp.140-155.
- Ihsanullah, Jamal, A., Ilyas, M., Zubair, M., Khan, G. & Atieh, M.A. 2020. Bioremediation of Dyes: Current Status and Prospects. *Journal of Water Process Engineering*, Volume 38, pp.1-27.
- Irawati, H., Aprilita, N.H. & Sugiharto, E., 2018. Adsorpsi Zat Warna Kristal Violet Menggunakan Limbah Kulit Singkong (*Manihot esculenta*). *Berkala MIPA*, 25(1), pp.17-31.
- Irmayana, I., Taskirawati, I. & Arif, A., 2019. Keragaman Jamur pada Log dan Kayu Gergajian Nyatoh (*Palaquium* sp.). *Jurnal Perennial*, 15(1), pp.8-15.
- Jannah, I.N. & Muhimmatin, I., 2019. Pengelolaan Limbah Cair Industri Batik Menggunakan Mikroorganisme di Kecamatan Cluring Kabupaten Banyuwangi. *Warta Pengabdian*, 13(3), pp.106-115.
- Jarosz-Wilkolazka, A., Kochamanska-Rdest, J., Malarczyk, E., Wardas, W. & Leonowicz, A. 2002. Fungi and Their Ability to Decolourize Azo and Anthraquinonic Dyes. *Enzyme and Microbial Technology*, 30(4), pp.566-572.
- Kaushik, P. & Malik, A., 2009a. Fungal Dye Decolorization: Recent Advances and Future Potential. *Environmental International*. Volume 35, pp.127-141.
- Kaushik, P. & Malik, A., 2009b. Microbial Decolorization of Textile Dyes Through Isolates Obtained from Contaminated Sites. *Journal of Scientific & Industrial Research*, Volume 68, pp.325-331.
- Kumar, V., Singh, G. & Dwivedi, S.K., 2022. Dye Degradation by Fungi. In: S.S. Muthu & A. Khadir, eds. *Dye Biodegradation, Mechanism and Techniques*. Singapore: Springer, pp.113-137.
- Leonwicz, A., Cho, N., Luterek, J., Wilkolazka, A., Wojtas-Wasilewska, M., Matuszewska, A., Hofrichter, M., Wesenberg, D. & Rogalski, J. 2001. Fungal laccase: Properties and Activity on Lignin. *Journal of Basic Microbiology*, 41(3), pp.185-227.
- Lorenza, Shindy. 2022. Karakteristik Limbah Cair Industri Batik dengan Pewarna Naphtol di Yogyakarta. *Skripsi*. Yogyakarta: Universitas Islam Indonesia.
- Marzuki, I., 2019. *Aplikasi Mikrosimbion Spons dalam Bioremediasi Lingkungan*. Gowa: Tohar Media.
- Nurroisah, E., Indarjo, S. & Wahyuningsih, A.S., 2014. Keefektifan Aerasi Sistem Tray dan Filtrasi sebagai Penurun Chemical Oxygen Demand dan Padatan Tersuspensi pada Limbah Cair Batik. *Unnes Journal of Public Health*, 3(4), pp.56-64.
- Omar, S. A., 2016. Decolorization of Different Textile Dyes by Isolated *Aspergillus niger*. *Journal of Environmental Science and Technology*, 9(1), pp.149-156.

- Pallerla, S. & Chambers, R.P., 1997. Characterization of a Ca-Alginate-Immobilized *Trametes versicolor* Bioreactor for Decolorization and Aox Reduction of Paper Mill Effluents. *Bioresource Technology*, 60(1), pp.1-8.
- Plaskowski, K., Dabrowska, S. & Zarzycki, P.K., 2018. Dye Removal from Water and Wastewater Using Various Physical, Chemical, and Biological Processes. *Journal of AOAC International*, 101(5), pp.1371-1384.
- Purnama, H. & Setiati, S., 2004. Adsorpsi Limbah Tekstil Sintesis dengan Jerami Padi. *Jurnal Teknik Gelagar*, 15(1), pp.1-9.
- Rajhans, G., Barik, A., Sen, S.K. & Raut, S., 2021. Degradation of Dyes by Fungi. *BioTechnologia*, 104(4), pp.445-455.
- Ramamurthy, N., Balasaraswathy, S. & Sivasakthivelan, P., 2011. Biodegradation and Physico-Chemical Changes of Textile Efluent by Various Fungal Species. *Romanian J. Biophys*, 21(2), pp.113-123.
- Ryu, B.H. & Weon, Y.D., 1992. Decolorization of Azo Dyes by *Aspergillus sojae* B-10. *Journal of Microbiology and Biotechnology*, 2(3), pp.215-219.
- Sa'diyah, H., Dewi, R.S. & Sastranegara, M.H., 2024. Dekolorisasi Limbah Batik Pekalongan Menggunakan *Aspergillus* sp.3 Terimobilisasi Luffa pada Waktu Inkubasi dan Inokulum Berbeda. *Jurnal Teknologi Lingkungan*, 25(2), pp.273-280.
- Salem, Muhammed, A.A., Gl-Gamal, M.S. & Talat, M., 2019. Biological Decolorization and Degradation of Azo Dyes from Textile Wastewater Effluent by *Aspergillus niger*. *Egyptian Journal of Chemistry*, 62(10), pp.1799-1813.
- Siswanti, S., Putri, Y. & Oktaviana, A.H., 2023. Adsorpsi Zat Warna Remazol Brilliant Blue R Pada Limbah Industri Batik Menggunakan Adsoben dari Mahkota Buah Nanas. *Jurnal Ilmiah Teknik Kimia*, 21(1), pp.9-16.
- Sorta, R.R.T., Lestari, S. & Dewi, R.S., 2012. Dekolorisasi Beberapa Macam Limbah Cair Batik menggunakan Limbah Baglog *Pleurotus ostreatus* dengan Waktu Inkubasi Berbeda. *Biosfera*, 29(3), pp.136-140.
- Sodaneath, H., Lee, J.I., Yang, S.O., Jung, H., Ryu, H.W. & Cho, K.S., 2017. Decolorization of Textile Dyes in an Air-lift Bioreactor Inoculated with *Bjerkandera adusta* OBR105. *Journal of Environmental Science and Health, Part A*, 52(11), pp.1099-1111.
- Stephanie, C., 2019. Kemampuan Isolat Jamur *Aspergillus niger* sebagai Agen Bioremediasi dalam Dekolorisasi Senyawa Pewarna Reactive Red dan Direct Turkish Blue. *Jurnal Ilmiah Mahasiswa Universitas Surabaya*, 8(1), pp.2212-2227.
- Wong, Y. & Yu, J., 1999. Laccase-Catalyzed Decolorization of Synthetic Dyes. *Water Research*, 33(16), pp.3512-3520.

- Wulandari, F. Y., Ratnaningtyas, N. I. & Dewi, R. S., 2014. Dekolorisasi Limbah Batik Menggunakan Limbah Medium Tanam *Pleurotus ostrestus* pada Waktu Inkubasi yang Berbeda. *Scripta Biologica*, 1(1), pp.71-75.
- Yehia, R.S., Rodriguez-Couto, S., 2017. Discoloration of The Azo Dye Congo Red by Manganese Dependent Peroxidase from *Pleurotus sajor caju*. *Applied Biochemistry and Microbiology*, 23(2), pp.222-229.
- Yesilada, O., Birhanli, E. & Geckil, H., 2018. Bioremediation and Decolorization of Textile Dyes by White Rot Fungi and Laccasse Enzymes. *Mycoremediation and Enviromental Sustainability*, Volume 2, pp.121-153.
- Yusuf, Fatima, Yakasai, H.M., Usman, S., Muhammad, J.B., Yau, M., Jagaba, A.H. & Shukor, M.Y. 2023. Dyes-Decolorizing Potential of Fungi Strain BUK-BCH-BTE1 Locally Isolated from Textile Industry Effluents: Characterization and LC_MS Analysis of The Metabolites. *Case Studies in Chemical and Enviromental Engineering*, Volume 8, pp.1-12.

