

DAFTAR PUSTAKA

- Adeoye, J.B., Lau, S.Y., Tan, Y.H., Tan, Y.Y., Chiong, T., Mubarak, N.M., Anbuezhayan, G., Khalid, M., dan Weing, J.T. (2025). A Comprehensive Review on Adsorption Technologies for Methylene Blue Elimination: Efficiency, Mechanisms, and Future Perspectives, *Discover Applied Sciences*, 7(1), hal. 1285. <https://doi.org/10.1007/s42452-025-07250-4>.
- Al-Asadi, S.T., Mussa, Z.H., Al-Qaim, F.F., Kamyab, H., Al-Saedi, H.F.S., Deyab, I.F., dan Kadhim, N.J. (2025). A Comprehensive Review of Methylene Blue Dye Adsorption on Activated Carbon from Edible Fruit Seeds: A Case Study on Kinetics and Adsorption Models, *Carbon Trends*, 20, hal. 100507. <https://doi.org/10.1016/j.cartre.2025.100507>.
- Bakar, N.A., Othman, N., Yunus, Z.M., Altowayti, W.A.H., Gheethi, A.A., Asharuddin, S.M., Tahir, M., Fitriani, N., dan Salleh, S.N.A.M. (2023). Nipah (*Musa acuminata* Balbisiana) Banana Peel as a Lignocellulosic Precursor for Activated Carbon: Characterization Study After Carbonization Process with Phosphoric Acid Impregnated Activated Carbon, 13, hal. 11085-11098. <https://doi.org/10.1007/s13399-021-01937-5>.
- Ebrahimzadeh, F., dan Akbari, A. (2025). Investigation the Adsorption Mechanisms, Chemical Resistance and Mechanical Strength of the Synthesized Chitosan/Activated Carbon Composite in Methylene Blue Removal, *Scientific Reports*, 15, hal. 37820. <https://doi.org/10.1038/s41598-025-21734-8>.
- Damayanti, V.C. (2025). *Pengaruh Variasi Suhu Karbonisasi Terhadap Karakteristik Dan Mekanisme Adsorpsi Karbon Aktif Kulit Pisang Kepok (*Musa acuminata*) Teraktivasi $ZnCl_2$ Pada Metilen Biru*, Skripsi, Departemen Fisika Universitas Gadjah Mada, Yogyakarta.
- Gujar, J.P., Gautam, M.K., dan Modhera, B. (2025). Valorization of Banana Peel into Activated Carbon for Efficient and Sustainable Dye Removal in Textile Industry, *Biomass Conversion and Biorefinery*, 15, hal. 2936-2938. <https://doi.org/10.1007/s13399-025-06795-z>.
- Hermanto, D., Prihatini, P.J., Apriani, N.Y., Kurniawati, L., Murniati, Hamdiani, S., Ismillayli, N., dan Kamali, S.R. (2024). Facile Synthesis of Activated Carbon/Alginate/Chitosan Composite Beads as Rhemazole Brilliant Blue R Adsorbent, *Indonesian Physical Review*, 7(3). <https://doi.org/10.29303/ipr.v7i3.343>.
- Iltar, C.F., Yilzid, S., Ugraskan, V., dan Isik, B. (2024). Valorization of Toxic Methylene Blue Dye Adsorption by Sodium Alginate/Carboxymethyl Cellulose/Activated Carbon Ternary Composites, *Chemical Engineering Communications*, 211, hal. 1763-1780. <https://doi.org/10.1080/00986445.2024.2383595>.
- Jung, S., Jung, M., Yoon, J., Kim, J., Jin, H.J., dan Kwak, H.W. (2024). Chitosan-Derived Activated Carbon/Chitosan Composite Beads for Adsorptive Removal of Methylene Blue and Acid Orange 7 Dyes, *Reactive and Functional Polymers*, 204, hal. 106028. <https://doi.org/10.1016/j.reactfunctpolym.2024.106028>.

- Khan, I., Saeed, K., Zekker, I., Zhang, B., Hendi, A.H., Ahmad, A., Ahmad, S., Zada, N., Ahmad, H., Shah, L.A., Shah, T., dan Khan, I. (2022). Review on Methylene Blue: It's Properties, Uses, Toxicity and Photodegradation, *Water*, 14(2), hal. 242. <https://doi.org/10.3390/w14020242>.
- Kumari, S., Singh, R., Jahangeer, J., Sharma, V., Sharma, A.K., dan Sharma, P. (2024). Innovative Strategies for Dye Removal from Textile Wastewater: a Comprehensive review of Treatment Approaches and Challenges, *Water, Air, & Soil Pollution*, 235, hal. 720. <https://doi.org/10.1007/s11270-024-07532-4>.
- Luong, H.V.T., Le, P.P., Thieu, Q.Q.V., Nguyen, V.N.H., dan Nguyen, T.N.Y. (2024). Alginate Functionalized Sugarcane Cellulose-Based Beads to Improve Methylene Blue Adsorption from Aqueous Solution, *Heliyon*, 10(18), hal. 37860. <https://doi.org/10.1016/j.heliyon.2024.e37860>.
- Maia, L.S., Duizit, L.D., Pinhato, F.R., dan Mulinari, D.R. (2021), Valorization of Banana Peel Waste for Producing Activated Carbon Via NaOH and Pyrolysis for Methylene Blue Removal, *Carbon Letters*, 31, hal. 749-762. <https://doi.org/10.1007/s42823-021-00226-5>.
- Mokhtari, A., Sabzi, M., dan Azimi, H. (2021). 3D Porous Bioadsorbents Based on Chitosan/Alginate/Cellulose Nanofibers as Efficient and Recyclable Adsorbents of Anionic Dye, *Carbohydrate Polymers*, 265, hal. 118075. <https://doi.org/10.1016/j.carbpol.2021.118075>.
- Oladoye, P.O., Ajiboye, T.O., Omotola, E.O., dan Oyewola, O.J. (2022). Methylene Blue Dye: Toxicity and Potential Elimination Technology from Wastewater, *Results in Engineering*, 16, hal. 100678. <https://doi.org/10.1016/j.rineng.2022.100678>.
- Pelivanov, I., Petrova, E., Yoon, S.J., Qian, Z., Guye, K., dan O'Donnell, M. (2018). Molecular Fingerprinting of Nanoparticles in Complex Media with Non-Contact Photoacoustics: Beyond the Light Scattering Limit, *Scientific Reports*, 8(1), p. 14425. <https://doi.org/10.1038/s41598-018-32580-2>.
- Purnaningtyas, M.A.K., Sudiono, S., dan Siswanta, D. (2020). Synthesis of Activated Carbon/Chitosan/Alginate Beads Powder as an Adsorbent for Methylene Blue and Methyl Violet 2B Dyes, *Indonesian Journal of Chemistry*, 20(5), hal. 1119–1130. <https://doi.org/10.22146/ijc.49026>.
- Rashid, R., Shafiq, I., Akhter, P., Iqbal, M.J., dan Hussain, M. (2021). A State-of-the-art Review on Wastewater Treatment Techniques: the Effectiveness of Adsorption Method, *Environmental Science and Pollution Research*, 28, hal. 9050-9066. <https://doi.org/10.1007/s11356-021-12395-x>.
- Sa'diyah, K., dan Lusiani, C.E. (2022). Kualitas Karbon Aktif Kulit Pisang Kepok Menggunakan Aktivator Kimia dengan Variasi Konsentrasi dan Waktu Aktivasi, *Jurnal Teknik Kimia dan Lingkungan*, 6(1), hal. 9–19. <https://doi.org/10.33795/jtkl.v6i1.1491>.
- Yadav, D., dan Dutta, J. (2023). A Systematic Review on Recent Development of Chitosan/Alginate-Based Polyelectrolyte Complexes for Wastewater Treatment, *International Journal of Environmental Science and Technology*, 21, hal. 3381-3406. <https://doi.org/10.1007/s13762-023-05244-6>.
- Yagmur, H.K., dan Kaya, İ. (2021). Synthesis and Characterization of Magnetic ZnCl₂-Activated Carbon Produced from Coconut Shell for the Adsorption

of Methylene Blue, *Journal of Molecular Structure*, 1232, hal. 130071.
<https://doi.org/10.1016/j.molstruc.2021.130071>.