

DAFTAR PUSTAKA

- Abdullah, N. H., et al. (2023). Composite ceramic membranes from natural materials for urban wastewater treatment: Performance and fouling analysis. *Journal of Environmental Chemical Engineering*, 11(2), 109456.
- Ahmad, M., Lee, S. S., Dou, X., Mohan, D., Sung, J. K., Yang, J. E., & Ok, Y. S. (2015). Effects of pyrolysis temperature on soybean stover- and peanut shell-derived biochar properties and TCE adsorption in water. *Bioresource Technology*, 176, 288-291.
- Amaliah, A., Putri, R. W., Adawiah, N. U., & Alfiani, N. L. (2024). Pemanfaatan Teknologi Digital dalam Pengelolaan Sumber Daya Air untuk Meningkatkan Ketersediaan Air Bersih di Perkotaan. *Seminar Rekayasa Teknologi*, 543–548.
- Ardhana, W. T., Respati, S. M. B., & Suwardiyono, S. (2021). Analisis Sifat Fisik dan Kualitas Air Penyaringan Membran Keramik Zeolit, Lempung, Arang Batok Kelapa dengan Variasi Suhu Sintering. *Jurnal Ilmiah MOMENTUM*, 17(1).
- Bangun, R., Filterisasi, S., Berulang, A., Monitoring, D., Otomatis, K., Mikrokontroler, B., Kebutuhan, L. B., Sosial, S., & Nasional, E. (2023). *BAB I*.
- Badan Pusat Statistik (BPS). (2023). *Statistik Lingkungan Hidup Indonesia 2023*. BPS Indonesia.
- Badan Standardisasi Nasional (BSN). 2005. *SNI 06-6989.25-2005: Air dan Air Limbah – Bagian 25: Cara Uji Kekeruhan dengan Nephelometer*. Jakarta: BSN.
- Callister, W. D., & Rethwisch, D. G. (2015). *Materials Science and Engineering: An Introduction*. John Wiley & Sons.
- Chen, L., et al. (2018). *Effect of Porosity on Mechanical Strength of Ceramic Membranes*. Journal of the European Ceramic Society.
- Dinas Lingkungan Hidup DKI Jakarta. (2022). *Laporan Kualitas Air Sungai dan Kali di Wilayah Jakarta Timur*. Pemerintah Provinsi DKI Jakarta.
- Dimah, N., et al. (2022). *Komposit Membran Keramik Berbasis Bahan Alam*. Jurnal Teknologi Material Terapan, 11(3), 55–64.
- EPA (U.S. Environmental Protection Agency). 2021. *Method 180.1: Determination of Turbidity by Nephelometry*. Washington D.C.
- Fachruddin, A. (2021). *Sintesis Keramik Berpori dari Bahan Alam untuk Aplikasi Filtrasi Air*. Prosiding Material Indonesia.
- Fakultas, M., Dan, S., Studi, P., & Lingkungan, T. (2023). Pemanfaatan serabut kelapa dan karbon aktif sebagai media filtrasi pada pengolahan air limbah rph tugas akhir. *Tugas Akhir*.

- Fauzi. "1.000 Karung Lumpur Diangkat Dari Kali Cakung Lama." *Antara News*, ANTARA, 12 Oct. 2020,
- Food and Agriculture Organization (FAO). (2021). *The State of Food and Agriculture: Water and Agriculture*. FAO Publications.
- Fu, Z., et al. (2024). *Feasibility and challenges of low-cost ceramic membranes*. (review low-cost materials, manufaktur & aplikasi).
- Goldstein, J. I., et al. *Scanning Electron Microscopy and X-ray Microanalysis*. Springer, 2018
- Hubadillah, S. K., et al. (2023). Recent advances in ceramic membrane fabrication using natural resources for water purification. *Ceramics International*, 49(8), 11234-11245.
- Irma, V., & Wahyuni, R. (2023). *Modifikasi membran PVDF dengan penambahan PVA untuk meningkatkan kinerja filtrasi*. Jurnal Rekayasa Sistem & Lingkungan, Universitas Jember.
- Kumar, S., et al. (2021). Impact of suspended solids on river water quality and treatment methods. *Environmental Technology & Innovation*, 22, 101495.
- Kurniawan, H. (2025). Ultra filtrasi - UF Membran Sebagai Teknologi Penyaringan Air.
- Li, X., Chen, Y., & Zhang, H. (2020). Preparation and characterization of clay-based ceramic membranes for water treatment. *Journal of Membrane Science*, 610, 118199.
- Liu, X., et al. (2020). *Influence of Sintering Temperature on Microstructure and Porosity of Clay-Based Membranes*. *Ceramics International*.
- Luo, P., Kang, S., Apip, Zhou, M., Lyu, J., Aisyah, S., Binaya, M., Regmi, R. K., & Nover, D. (2019). Water quality trend assessment in Jakarta: A rapidly growing Asian megacity. *PloS one*, 14(7), e0219009.
- Mohammad, A. W., et al. (2022). *Prediction of steady-state flux and fouling behavior in membrane distillation*. *Membranes*, 12(2), 157. MDPI.
- Nugroho, A. F., et al. (2022). Coconut shell charcoal as adsorbent in ceramic membranes for organic pollutant removal. *Environmental Technology & Innovation*, 28, 102890.
- Pratiwi, R., et al. (2023). Assessment of irrigation canal pollution in Jakarta: Case study of Cakung Canal. *Journal of Water Process Engineering*, 52, 104567.
- Rachmawati, F., dkk. (2021). "Analisis Morfologi Membran Keramik Menggunakan SEM." *Jurnal Material dan Energi Indonesia*, 10(2): 45–52.
- Rahman, M., et al. (2019). *Sintering of Ceramic Membranes from Natural Materials*. *Journal of Materials Processing*.

- Sari, D. P., et al. (2024). Clay-zeolite composite membranes for heavy metal and turbidity removal in river water. *Separation and Purification Technology*, 328, 125012.
- Skoog, D. A., Holler, F. J., & Crouch, S. R. (2017). *Principles of Instrumental Analysis*. Cengage Learning.
- Sulaiman, N. M., Abdullah, N., & Ismail, N. (2017). Preparation and characterization of activated carbon from coconut shell by chemical activation with KOH for adsorption of methylene blue. *Journal of Environmental Chemical Engineering*, 5(3), 2340-2347.
- Suryadi, D., & Putra, P. (2021). *Analisis penurunan fluks dan karakterisasi fouling pada membran filtrasi tekanan*. Jurnal Teknik Unjani.
- Wang, J., Liu, Y., & Zhao, X. (2017). Thermal behavior and microstructure evolution of kaolin clay during sintering. *Ceramics International*, 43(1), 1234-1241.
- WHO. (2017). *Guidelines for drinking-water quality* (4th ed.). World Health Organization
- Wulandari, E., et al. (2021). Zeolite-modified ceramic membranes for suspended solids removal in agricultural wastewater. *Journal of Membrane Science*, 620, 118912.
- Zhou, Q., Wang, S., & Liu, H. (2018). Influence of clay mineral composition on the performance of ceramic membranes for water filtration. *Separation and Purification Technology*, 202, 1-9.

LAMPIRAN

Lampiran 1. Dokumentasi Penelitian

1. Proses Penghalusan Bahan



2. Proses Pencampuran Bahan



3. Proses *Pressing*

