DAFTAR PUSTAKA

Abid, M. Bin, Wahab, R. A., Salam, M. A., Gzara, L., & Moujdin, I. A. (2023). Desalination technologies, membrane distillation, and electrospinning, an overview. *Heliyon*, *9*(2), e12810. https://doi.org/10.1016/j.heliyon.2023.e12810

Adji, T. N., Cahyadi, A., Ramadhan, G. S., Haryono, E., Purnama, S., Tastian, N. F., Acitya, R., & Putra, R. D. (2023). Analisis Dampak Aktivitas Antropogenik Terhadap Kualitas Air Sungai Bawah Tanah Seropan, Kawasan Karst Gunungsewu, Kabupaten Gunungkidul. *Jurnal Geografi, Edukasi Dan Lingkungan (JGEL)*, *7*(1), 1–17. https://doi.org/10.22236/jgel.v7i1.10006

Aji, M. M., Narendren, S., Purkait, M. K., & Katiyar, V. (2020). Utilization of waste polyvinyl chloride (PVC) for ultrafiltration membrane fabrication and its characterization. *Journal of Environmental Chemical Engineering*, *8*(2), 103650. https://doi.org/10.1016/j.jece.2019.103650

Anugrah, I. R., Nisa, N. A., Luthfiana, F., & Dani, A. M. F. (2023). Penerapan Prinsip Interaksi Antar Molekul dalam Pengolahan Limbah Batik. *Research and Practice of Educational Chemistry*, *2*(1), 19–28.

Apriyani, N., & Novrianti, N. (2020). Penggunaan Karbon Aktif Dan Zeolit Tak Teraktivasi Dalam Alat Penyaring Air Limbah Laundry. *Jukung (Jurnal Teknik Lingkungan)*, *6*(1), 66–76. https://doi.org/10.20527/jukung.v6i1.8240

Arsyina, L., Wispriyono, B., Ardiansyah, I., & Pratiwi, L. D. (2019). Hubungan Sumber Air Minum dengan Kandungan Total Coliform dalam Air Minum Rumah Tangga. *Jurnal Kesehatan Masyarakat Indonesia*, *14*(2), 18. https://doi.org/10.26714/jkmi.14.2.2019.18-23

Badan Pusat Statistik. (2023). Statistik Lingkungan Hidup Indonesia. In *Badan Pusat Statistik RI* (Vol. 42, Issue 1). http://scioteca.caf.com/bitstream/handle/123456789/1091/RED2017-Eng-8ene.pdf?sequence=12&isAllowed=y%0Ahttp://dx.doi.org/10.1016/j.regsciurbeco.2008.06.005%0Ahttps://www.researchgate.net/publication/305320484_SISTEM_PEMBETUNGAN_TERPUSAT_STRATEGI_MELESTARI

Baker, R. W. (2012). *Membrane Technology and Applications, 3rd edition*.

Bansal, R. C., & Goyal, M. (2005a). Activated carbon adsorption. *Activated Carbon Adsorption*, *May*, 1–472. https://doi.org/10.1680/bwtse.63341.147

Bansal, R. C., & Goyal, M. (2005b). Activated Carbon Adsorption. *Activated Carbon Adsorption*, *May*, 1–472. https://doi.org/10.1680/bwtse.63341.147

Bansal, R. C., & Goyal, M. (2005c). *Activated Carbon Adsorption*. Boca Raton. https://doi.org/10.1201/9781420028812

Chen, M., Nan, J., Ji, X., Wu, F., Ye, X., & Ge, Z. (2022). Effect of adsorption and coagulation pretreatment sequence on ultrafiltration membrane fouling: Process study and targeted prediction. *Desalination and Water Treatment*, *540*(115967). https://doi.org/10.1016/j.desal.2022.115967

Cho, B. M., Nam, Y. S., Cheon, J. Y., & Park, W. H. (2015). Residual charge and filtration efficiency of polycarbonate fibrous membranes prepared by electrospinning. *Journal of Applied Polymer Science*, *132*(1), 1–7. https://doi.org/10.1002/app.41340

Cho, Y., Son, Y., Ahn, J., Lim, H., Ahn, S., Lee, J., Bae, P. K., & Kim, I.-D. (2022). *Supporting Information Multifunctional Filter Membranes based on Self-Assembled Core-Shell Biodegradable Nanofibers for Persistent Electrostatic Filtration through the Triboelectric Effect*. *16(11)*(19451–19463), 1–13.

Crittenden, J. C., Trussell, R. R., Hand, D. W., Howe, K. J., & Tchobanoglous, G. (2012). MWH's Water Treatment. In *MWH's Water Treatment*. https://doi.org/10.1002/9781118131473

Dai, Z., Su, J., Zhu, X., Xu, K., Zhu, J., Huang, C., & Ke, Q. (2018). Multifunctional polyethylene (PE)/polypropylene (PP) bicomponent fiber filter with anchored nanocrystalline MnO2 for effective air purification. *Journal of Materials Chemistry A*, *6*(30), 14856–14866. https://doi.org/10.1039/c8ta03683g

Damdinov, B. B., Danilova, V. A., Minakov, A. V., & Pryazhnikov, M. I. (2021). Rheological Properties of PVDF Solutions. *Journal of Siberian Federal University - Mathematics and Physics*, *14*(3), 265–272. https://doi.org/10.17516/1997-1397-2021-14-3-265-272

Demirel, E., Zhang, B., Papakyriakou, M., Xia, S., & Chen, Y. (2017). Fe2O3 nanocomposite PVC membrane with enhanced properties and separation performance. *Journal of Membrane Science*, *529*(January), 170–184. https://doi.org/10.1016/j.memsci.2017.01.051

Destianti, P., Susanto, H., & Oktiawan, W. (2013). PENGOLAHAN LIMBAH PENCUCIAN MOBIL MENGGUNAKAN TEKNOLOGI MEMBRAN ULTRAFILTRASI BERPORI 50 DAN 100 KDA Puti Destianti, Heru Susanto*), Wiharyanto Oktiawan**). *J. Teknik Lingkungan*, *3*(4), 1–7.

Djana, M., Rizka Mayasari, Rosalia Dwi Werena, & Hasrul Anwar. (2024). Desain Sistem Pengolahan Air Layak Konsumsi Dengan Aplikasi Membran Ultrafiltrasi Termodifikasi. *Jurnal Redoks*, *9*(1), 1–10. https://doi.org/10.31851/redoks.v9i1.13208

Dzhonova-Atanasova, D., Tsibranska, I., & Vlaev, S. (2017). Flow Behaviour in a Membrane Cross-Flow Filtration Cell: Experimental Observations and Cfd Modelling. *Journal of Chemical Technology and Metallurgy*, *52*(1), 58–65.

E. Elfiana, Sami, M., Intan, S. K., Aziz, A., & Farisha, S. (2021). Pengaruh Waktu Dan Tekanan Operasi Membran Keramik Mikrofiltrasi Tubular Terhadap Koefesien Rejeksi Warna Air Rawa Secara Crossflow Filtration. *Proceeding Seminar Nasional Politeknik Negeri Lhokseumawe*, *5*(1), 152–160.

Erika Mulyana Gultom, & M. Turmuzi Lubis. (2014). APLIKASI KARBON AKTIF DARI CANGKANG KELAPA SAWIT DENGAN AKTIVATOR H3PO4 UNTUK PENYERAPAN LOGAM BERAT Cd DAN Pb. *Jurnal Teknik Kimia USU*, *3*(1), 5–10. https://doi.org/10.32734/jtk.v3i1.1493

Eykens, L., De Sitter, K., Dotremont, C., Pinoy, L., & Van der Bruggen, B. (2017). Membrane synthesis for membrane distillation: A review. *Separation and Purification Technology*, *182*, 36–51. https://doi.org/10.1016/j.seppur.2017.03.035

Fan, X., Su, Y., Zhao, X., Li, Y., Zhang, R., Zhao, J., Jiang, Z., Zhu, J., Ma, Y., & Liu, Y. (2014). Fabrication of polyvinyl chloride ultrafiltration membranes with stable antifouling property by exploring the pore formation and surface modification capabilities of polyvinyl formal. *Journal of Membrane Science*, *464*, 100–109. https://doi.org/10.1016/j.memsci.2014.04.005

Fathanah, U., & Meilina, H. (2021). Karakterisasi dan Kinerja Membran Polyethersulfone Termodifikasi Aditif Anorganik secara Blending Polimer. *Jurnal Serambi Engineering*, *6*(4), 2407–2414. https://doi.org/10.32672/jse.v6i4.3515

Faysal, M., Matin Juliana, F., Johirul Islam, M., Islam, R., Md Faysal, S., Ruhul Amin, M., Jahangir Alam, M., Nazir Hossain, M., Asaduzzaman, M., & Author, C. (2017). Assessment of pH and total dissolved substances (TDS) in the commercially available bottled drinking water. *IOSR Journal of Nursing and Health Science6*, (5), 40–35. https://doi.org/10.9790/1959-0605093540

Fazal, M. R., & Mataram, A. (2023). Polyvinylidene Fluoride Membranes With Tin (Iv) Dioxide (Sno2) Additives: Enhancing Water Treatment for Airport Eco

Green. *Journal of Airport Engineering Technology (JAET)*, *3*(2), 68–74. https://doi.org/10.52989/jaet.v3i2.100

Febrianto, M. A., Sujiwa, A., Shofwan, M., & Majid, D. (2024). Penurunan Kadar Bod, Cod Dan Turbidity Limbah Cair Industri Batik Melalui Metode Kombinasi Pretreatment Filtrasi Adsorpsi Dan Elektrokoagulasi. *Jurnal Reka Lingkungan*, *11*(3), 258–269. https://doi.org/10.26760/rekalingkungan.v11i3.258-269

Fitradi, R. B. (2015a). Preparasi dan Modifikasi Membran untuk Pengolahan Air. *Chemical Product*, *December*, 1–15.

Fitradi, R. B. (2015b). *Preparasi dan Modifikasi Membran untuk Pengolahan Air*. *December*.

Fu, W., Wang, L., Chen, F., Zhang, X., & Zhang, W. (2018). Polyvinyl chloride (PVC) ultrafiltration membrane fouling and defouling behavior: EDLVO theory and interface adhesion force analysis. *Journal of Membrane Science*, *564*(July), 204–210. https://doi.org/10.1016/j.memsci.2018.07.020

Ghaffour, N., & Qamar, A. (2020). Membrane fouling quantification by specific cake resistance and flux enhancement using helical cleaners. *Separation and Purification Technology*, *239*(January). https://doi.org/10.1016/j.seppur.2020.116587

Hardyanti, N., Zaman, B., Purwono, Saputra, A. T., Aprianto, R., & Zulhizah, H. (2023). Utilization of magnetic GAC adsorbent for the removal of TSS and turbidity parameters in tofu wastewater. *IOP Conference Series: Earth and Environmental Science*, *1268*(1), 5–9. https://doi.org/10.1088/1755-1315/1268/1/012026

Hesavi, M., Derikvand, E., Babarsad, M. S., Bejestan, M. S., & Zendehdel, M. (2023). Preparation, characterization and performance of PVDF/Al2O3, TiO2 and clay membrane for removal of toxic metals. *Desalination and Water Treatment*, *313*, 82–91. https://doi.org/10.5004/dwt.2023.30070

Hidayah, M. (2018). Pengolahan Air Limbah Menjadi Air Minum Dengan Menghilangkan Amonium Dan Bakteri E-Coli Melalui Membran Nanofiltrasi. *Walisongo Journal of Chemistry*, *1*(1), 6. https://doi.org/10.21580/wjc.v2i1.2668

Hidayah, M., Mujiburohman, M., & Hidayati, N. (2023). Synthesis of Polyamide-Al2O3 Nanocomposite Membranes Using the Nanofiltration Phase. In *Atlantis*

Press International (Vol. 1). Atlantis Press International BV. https://doi.org/10.2991/978-94-6463-134-0

Isnikarita, R., & Zulfah, N. (2025). *Analisis Bakteri Total Coliform dan Escherichia Coli pada Air Bersih di Lingkungan Universitas Islam Indonesia Menggunakan Media Chromogenic Coliform Agar*. *X*(1), 11651–11655.

Ji, J., Liu, F., Hashim, N. A., Abed, M. R. M., & Li, K. (2015). Poly(vinylidene fluoride) (PVDF) membranes for fluid separation. *Reactive and Functional Polymers*, *86*, 134–153. https://doi.org/10.1016/j.reactfunctpolym.2014.09.023

Karri, R. R., Sahu, J. N., & Chimmiri, V. (2018). Critical review of abatement of ammonia from wastewater. *Journal of Molecular Liquids*, *261*(2017), 21–31. https://doi.org/10.1016/j.molliq.2018.03.120

Kementerian Kesehatan. (2023a). Permenkes No. 2 Tahun 2023. *Kemenkes Republik Indonesia*, *55*, 1–175.

Kementerian Kesehatan. (2023b). Permenkes No. 2 Tahun 2023. *Kemenkes Republik Indonesia*, *55*, 1–175.

Kharraz, J. A., & An, A. K. (2020). Patterned superhydrophobic polyvinylidene fluoride (PVDF) membranes for membrane distillation: Enhanced flux with improved fouling and wetting resistance. *Journal of Membrane Science*, *595*, 117596. https://doi.org/10.1016/j.memsci.2019.117596

Kusuma, N. C., Purwanto, M., Sudrajat, M. A., Jaafar, J., Othman, M. H. D., Aziz, M. H. A., Raharjo, Y., & Qtaishat, M. R. (2021). Fabrication and characterization of modified PVDF hollow fiber membrane coated with hydrophobic surface modifying macromolecules for desalination application. *Journal of Environmental Chemical Engineering*, *9*(4), 105582. https://doi.org/10.1016/j.jece.2021.105582

Larasati, A. I., Susanawati, L. D., & Suharto, B. (2015). *The Effectiveness of Heavy Metals Adsorptions on Leachate by Activated Carbon, Zeolite, and Silica Gel in TPA Tlekung, Batu*. 44–48.

Li, H. Bin, Shi, W. Y., Zhang, Y. F., Liu, D. Q., & Liu, X. F. (2014). Effects of additives on the morphology and performance of PPTA/PVDF in situ blend UF membrane. *Polymers*, *6*(6), 1846–1861. https://doi.org/10.3390/polym6061846

Liu, F., Hashim, N. A., Liu, Y., Abed, M. R. M., & Li, K. (2011). Progress in the production and modification of PVDF membranes. *Journal of Membrane Science*, *375*(1–2), 1–27. https://doi.org/10.1016/j.memsci.2011.03.014

Lovinger, A. J. (1982). *Poly(vinylidene Fluoride)*. Applied Science Publisher.

Lu, X., Peng, Y., Qiu, H., Liu, X., & Ge, L. (2017). Anti-fouling membranes by manipulating surface wettability and their anti-fouling mechanism. *Desalination*, *413*, 127–135. https://doi.org/10.1016/j.desal.2017.02.022

Maharani, R. M., & Damayanti, A. (2013). Pengolahan Limbah Cair Rumah Makan Menggunakan Membran Silika Nanofiltrasi Aliran Cross Flow untuk Menurunkan Fosfat dan Amonium. *Teknik Pomits*, *2*(2), 113–117.

Mahmud, & Noor, R. (2005). Kinetika Fouling Membran Ultrafiltrasi (UF) Pada Pengolahan Air Berwarna: Pengaruh Interval dan Lamanya Pencucian Balik (Backwashing) Membran. *Info Teknik*, *6*(1), 62–69.

Mardhia, D., & Abdullah, V. (2018). Studi Analisis Kualitas Air Sungai Brangbiji Sumbawa Besar. *Biologi Tropis*, *18*(2), 182–189.

Marlina, N., Hudori, & Hafidh, R. (2017). Pengaruh kekerasan saluran air dan Suhu air Sungai Winongo menggunakan Software Qual2kw. *Jurnal Sains Dan Teknologi Lingkungan*, *9*(2), 122–133.

Mohamad, E. (2013). Pengaruh Variasi Waktu Kontak Tanaman Bayam Duri Terhadap Adsorpsi Logam Berat Kadmium (Cd). *Jurnal Entropi*, *8*(1), 562–571.

Mohamed, N. K., Kochkodan, V., Zekri, A., & Ahzi, S. (2020). Polysulfone membranes embedded with halloysites nanotubes: Preparation and properties. *Membranes*, *10*(1). https://doi.org/10.3390/membranes10010002

Mortimer, R. G. (2008). *Physical Chemistry Third Edition*.

Mulder, M. (1996). *Basic principles of membrane technology*. Springer science & business media.

Muthia, E. (2017). Proses pemisahan menggunakan teknologi membran. In *Journal of Chemical Information and Modeling* (Vol. 53, Issue 9).

Nenohai, J. A., Minata, Z. S., Ronggopuro, B., Sanjaya, E. H., & Utomo, Y. (2023). Penggunaan Karbon Aktif dari Biji Kelor dan Berbagai Biomassa Lainnya dalam Mengatasi Pencemaran Air : Analisis Review. *Jurnal Ilmu Lingkungan*, *21*(1), 29–35. https://doi.org/10.14710/jil.21.1.29-35

Ningsih, D. A., Said, I., & Ningsih, P. (2016). *ADSORPSI LOGAM TIMBAL (Pb) DARI LARUTANNYA DENGAN MENGGUNAKAN ADSORBEN DARI TONGKOL JAGUNG*. *5*(May), 55–60.

Novita, E., Nur Aeni, S., & Pradana, H. A. (2021). Treatment of Time and Stirring Speed on the Adsorption Efficiency of Coffee Processing Wastewater (Perlakuan Waktu dan Kecepatan Pengadukan Terhadap Efisiensi Adsorpsi Air Limbah Pengolahan Kopi). *Jurnal Keteknikan Pertanian*, *9*(2), 41–48. https://journal.ipb.ac.id/index.php/jtep/article/download/32217/22195

Nubatonis, H., Sutaji, H. I., Warsito, A., & Tanesib, J. L. (2021). Analisis Pola Sebaran Air Lindi Sekitar Tempat Pembuangan Akhir (TPA) Noenbila Kabupaten Timor Tengah Selatan Menggunakan Metode Elektromagnetik Konduktivitas. *Jurnal Fisika Sains Dan Aplikasinya*, *6*(1), 24–31.

Nugroho, W., & Purwoto, S. (2013). Removal Klorida, TDS dan Besi pada Air Payau Melalui Penukar Ion dan Filtrasi Campuran Zeolit Aktif dengan Karbon Aktif Oleh : Wahyu Nugroho *) dan Setyo Purwoto **). *Teknik Waktu*, *11*, 47–59.

Oppong, S., He, Z., Fernandez, G. T., Zhang, G., & Yu, J. (2025). Durable Hydrophilic PVDF Hollow Fiber Membrane for Dissolved Organics Separation from High-Salinity Produced Water. *Fibers*, *13*(3). https://doi.org/10.3390/fib13030031

Oshima, K. H., Evans-Strickfaden, T. T., Highsmith, A. K., & Ades, E. W. (1996). The use of a microporous polyvinylidene fluoride (PVDF) membrane filter to separate contaminating viral particles from biologically important proteins. *Biologicals*, *24*(2), 137–145. https://doi.org/10.1006/biol.1996.0018

Peraturan Pemerintah Republik Indonesia. (2001). Permen RI Nomer 82 Tahun 2001. *Peraturan Pemenrintah*, 1–11. http://www.helpa-prometheus.gr/διαγνωστικές-εξετάσεις-για-τον-καρκί/

Prabarini, N., & Okayadnya, D. (2014). Penyisihan Logam Besi (Fe) Pada Air Sumur Dengan Karbon Aktif Dari Tempurung Kemiri. *Envirotek : Jurnal Ilmiah Teknik Lingkungan*, *5*(2), 33–41.

Pramesti, D. S., & Puspikawati, S. I. (2020). Analisis Uji Kekeruhan Air Minum Dalam Kemasan yang Beredar Di Kabupaten Banyuwangi. *Preventif : Jurnal Kesehatan Masyarakat*, *11*(2), 75–85.

Pratiwi, A. D., Widyorini, N., & Rahman, A. (2019). Analisis Kualitas Perairan Berdasarkan Total Bakteri Coliform Di Sungai Plumbon, Semarang. *Journal of Maquares*, *8*(3), 211–220.

Putri, L. N., Alhakim, R. R., Rochim, A., Ichwan, A., & Dyartanti, E. R. (2017). *Separator Baterai Ion Litium Dengan Penambahan Filler Dalam Membran PVDF/Selulosa*. 169–176.

Puts, G. J., Crouse, P., & Ameduri, B. M. (2019). Polytetrafluoroethylene: Synthesis and Characterization of the Original Extreme Polymer [Review-article]. *Chemical Reviews*, *119*(3), 1763–1805. https://doi.org/10.1021/acs.chemrev.8b00458

Redjeki, S. (2023). *Proses Desalinasi Dengan Membran*. Deepublish Digital.

Rosarina, D., & Laksanawati, E. K. (2018). Studi Kualitas Air Sungai Cisadane Kota Tangerang Ditinjau Dari Parameter Fisika. *Jurnal Redoks*, *3*(2), 38. https://doi.org/10.31851/redoks.v3i2.2392

Rusmaningsih, A., Syahbanu, I., & Destiarti, L. (2018). Uji Fluks Membran Polisulfon/Polietilen Glikol/Selulosa Asetat dari Nata De Coco. *Jurnal Kimia Khatulistiwa*, *7*(3), 84–90.

Rusydi, A. F. (2018). Correlation between conductivity and total dissolved solid in various type of water: A review. *IOP Conference Series: Earth and Environmental Science*, *118*(1). https://doi.org/10.1088/1755-1315/118/1/012019

Salamah, S. (2008). Pembuatan Karbon Aktif Dari Kulit Buah Mahoni Dengan Perlakuan Perendaman Larutan Koh. *Prosiding Seminar Nasional Teknoin2*, *5*, 55–59.

Saleh, T. A., Mustaqeem, M., & Khaled, M. (2022). Water treatment technologies in removing heavy metal ions from wastewater. *Environmental Nanotechnology, Monitoring & Management*, *17*, 100617. https://doi.org/10.1016/J.ENMM.2021.100617

Samsun, D., Alkan, S., Basaran, N., & Selli, N. T. (2023). *Preparation of superhydrophobic coating with excellent abrasion resistance and anti-icing properties using Al2O3/PVDF composites with different Al2O3 particle sizes*. 1–22.

Sari, M. I., Kusniawati, E., & Gustian, D. (2022). PENURUNAN KADAR TSS DAN TDS PADA AIR SUNGAI LEMATANG MENGGUNAKAN

TEMPURUNG KELAPA SAWIT (Elaeis oleifera) SEBAGAI MEDIA FILTRASI DEGRADATION OF TSS AND TDS IN LEMATANG RIVER WATER USING PALM OIL SHELLS (Elaeis oleifera) AS A FILTRATION MEDIUM. *Jurnal Teknik Para Akademika*, *13*(1), 12–16.

Sari, S. F., & Sutrisno, J. (2018). Penurunan Total Coliform Pada Air Tanah Menggunakan Membran Keramik. *WAKTU: Jurnal Teknik UNIPA*, *16*(1), 30–38. https://doi.org/10.36456/waktu.v16i1.1444

Seragih, M., & Siregar, J. (2019). Perbandingan Antara Hasil Simulasi Dan Eksperimen Nilai Densitas Keramik Alumina (Al2O3) Terhadap Suhu. *Prosiding Seminar Nasional Hasil Penelitian*, *2*(2), 1150–1155.

Setyo Purwoto. (2023). Peningkatan Mutu Air Sungai Surabaya Berbasis Treatment Koagulasi, Absorbsi, dan Ion Exchange. *WAKTU: Jurnal Teknik UNIPA*, *21*(02), 15–22. https://doi.org/10.36456/waktu.v21i02.7138

Shalahuddin, I., & Wibisono, Y. (2019). Mekanisme Fouling pada Membran Mikrofiltrasi Mode Aliran Searah dan Silang. *Jurnal Rekayasa Proses*, *13*(1), 6. https://doi.org/10.22146/jrekpros.40458

Sholikah, R. I., Woro, S., Istiqomah, Hefdea, A., Wulancahayani, E., & Rohmawati, L. (2017). *Stabilitas Termal dan Kristalinitas Komposit Polyvinylidene Fluoride) PVDF/SiO2 Pasir Vulkanik Kelud Thermal Stability and Crystallinity of Polyvinylidene Fluoride Composites*. *5*(2), 42–46.

Siswoyo, E., & Agustina, R. A. (2009). *PENGGUNAAN MEMBRAN KERAMIK UNTUK MENURUNKAN BAKTERI E. COLI DAN TOTAL SUSPENDED SOLID (TSS) PADA AIR PERMUKAAN*. *1*(1), 77–85.

Sri Abirami Saraswathi, M. S., Rana, D., Divya, K., Gowrishankar, S., Sakthivel, A., Alwarappan, S., & Nagendran, A. (2020). Highly permeable, antifouling and antibacterial poly(ether imide) membranes tailored with poly(hexamethylenebiguanide) coated copper oxide nanoparticles. In *Materials Chemistry and Physics* (Vol. 240). Elsevier B.V. https://doi.org/10.1016/j.matchemphys.2019.122224

Suhartono, J., Salsabilla, A., & Rosalina, D. (2024). *Pengurangan Kandungan Total Dissolved Solid (TDS), Konduktivitas dan Natural Organic Matter (NOM) pada Air Baku Bendungan Jatiluhur Menggunakan Kombinasi Membran dan Ion Exchange*. *8*(2), 106–115.

Tanjungsari, H., Sudarno, & Andarani, P. (2016). Pengaruh Sistem Pengelolaan Air Limbah Dosmetik Terhadap Kualitas Air Sumur Ditinjau Dari Konsentrasi

Tds, Klorida, Nitrat, Cod, Dan Total Coliform (Studi Kasus : Rt 01, Rw 02, Pemukiman Tunjungsari, Kelurahan Tembalang). *Jurnal Teknik Lingkungan UNDIP*, *5*(1), 1–11. https://dspace.uii.ac.id/bitstream/handle/123456789/11270/05.2 BAB 2.pdf?sequence=5&isAllowed=y

Teta Prihartini Aryanti, P., Adi Nugroho, F., Anwar, N., Lestary, R., Badriyah, I., Ardi Ronaldi, E., Mahayana, D., & Rusgiyarto, F. (2023). PVC-based gravity driven ultrafiltration membrane for river water treatment. *Materials Today: Proceedings*, *87*, 253–258. https://doi.org/10.1016/j.matpr.2023.03.103

Tiron, L. G., Vlad, M., & Baltă. (2018). Research on Hydrophilic Nature of Polyvinylpyrrolidone on Polysulfone Membrane Filtration. *IOP Conference Series: Materials Science and Engineering*, *374*(1), 0–7. https://doi.org/10.1088/1757-899X/374/1/012059

Xia, S., & Ni, M. (2015). Preparation of poly(vinylidene fluoride) membranes with graphene oxide addition for natural organic matter removal. *Journal of Membrane Science*, *473*, 54–62. https://doi.org/10.1016/j.memsci.2014.09.018

Yang, R. T. (2015). *Adsorbent: Fundementals and Applications*.

Yin, Z., Tian, B., Zhu, Q., & Duan, C. (2019). Characterization and application of PVDF and its copolymer films prepared by spin-coating and langmuir-blodgett method. *Polymers*, *11*(12). https://doi.org/10.3390/polym11122033

Yosefa, P. L., Muchtar, A., & Sophia, H. (2015). PEMANFAATAN LIMBAH AMPAS TEBU SEBAGAI ADSORBEN UNTUK PENINGKATAN KUALITAS AIR GAMBUT. *JOM FMIPA*, *2*(3), 321–329. https://doi.org/10.7868/80424857017030112

Yuliusman, Y., Purwanto, W. W., & Nugroho, Y. S. (2013). Pemilihan Adsorben Untuk Penjerapan Karbon Monoksida Menggunakan Model Adsorpsi Isotermis Langmuir. *Reaktor*, *14*(3), 225. https://doi.org/10.14710/reaktor.14.3.225-233

Yuningsih, L. M., Mulyadi, D., & Kurnia, A. J. (2016). Pengaruh Aktivasi Arang Aktif dari Tongkol Jagung dan Tempurung Kelapa Terhadap Luas Permukaan dan Daya Jerap Iodin. *Jurnal Kimia VALENSI*, *2*(1), 30–34. https://doi.org/10.15408/jkv.v2i1.3091

Yustani Leluno, Kembarawati, & Basuki. (2020). Kualitas Air Tanah di Sekitar TPA Km 14 Kota Palangka Raya. *Journal of Environment and Management*, *1*(1), 75–82. https://doi.org/10.37304/jem.v1i1.1208

Zhang, M., Liao, B. qiang, Zhou, X., He, Y., Hong, H., Lin, H., & Chen, J. (2015). Effects of hydrophilicity/hydrophobicity of membrane on membrane fouling in a submerged membrane bioreactor. *Bioresource Technology*, *175*, 59–67. https://doi.org/10.1016/j.biortech.2014.10.058

Zhang, R., Zhang, T., Cai, Y., Zhu, X., Han, Q., Li, Y., Liu, Y., Wang, A., & Lan, G. (2019). Synthesis and characterization of a spun membrane with modified Al2O3. *Journal of Plastic Film and Sheeting*, *35*(4), 380–400. https://doi.org/10.1177/8756087919840684

Zhang, S., Wu, L., Deng, F., Zhao, D., Zhang, C., & Zhang, C. (2016). Hydrophilic modification of PVDF porous membrane: Via a simple dip-coating method in plant tannin solution. *RSC Advances*, *6*(75), 71287–71294. https://doi.org/10.1039/c6ra13634f

Zhang, X., Chen, Y., Konsowa, A. H., Zhu, X., & Crittenden, J. C. (2009). Evaluation of an innovative polyvinyl chloride (PVC) ultrafiltration membrane for wastewater treatment. *Separation and Purification Technology*, *70*(1), 71–78. https://doi.org/10.1016/j.seppur.2009.08.019