

DAFTAR PUSTAKA

- Abdullah, N. H. (2016). *Studi Regenerasi batu Apung Sungai Pasak Pariaman sebagai Adsorben dalam Menyisihkan Nitrit dari Air Tanah*. Universitas Andalas, Padang.
- Ahn, Y. H. (2006). Sustainable nitrogen elimination biotechnologies: A review. *Process Biochemistry*, 41(8), 1709–1721. <https://doi.org/10.1016/j.procbio.2006.03.033>
- Al-Nozaily, F., Alaerts, G., & Veenstra, S. (2000). Performance of Duckweed-Covered Sewage Lagoons. Nitrogen and Phosphorus Balance and Plant Productivity. *Water Research*, 34(10), 2734–2741.
- Ali, Mohammad, Chai, L., Tang, C., Zheng, P., Min, X., Yang, Z., Xiong, L., & Song, Y. (2013). The Increasing Interest of Anammox Research in China : Bacteria , Process Development , and Application. *BioMed Research International*, 2013, 21.
- Ali, Muhammad, Oshiki, M., & Okabe, S. (2014). Simple, rapid and effective preservation and reactivation of anaerobic ammonium oxidizing bacterium “Candidatus Brocadia sinica.” *Water Research*, 57(0), 215–222. <https://doi.org/10.1016/j.watres.2014.03.036>
- Almi, A. (2019). *Penyisihan Nitrogen dengan Proses Anammox Memanfaatkan Aampas Tebu sebagai Media Lekat pada Reaktor Up-Flow Anaerobic Sludge Blanket*. Universitas Andalas, Padang.
- Araujo, J. C., Campos, A. C., Correa, M. M., Silva, E. C., Matté, M. H., Matté, G. R., Sperling, M. Von, & Chernicharo, C. A. L. (2011). *Anammox bacteria enrichment and characterization from municipal activated sludge*. 1428–1434. <https://doi.org/10.2166/wst.2011.632>
- Barbazán, M. del C. V. (2014). Upflow Anaerobic Sludge Blanket Reactor - A Review. *Indian Journal of Environmental Health*, 43(2), 1–83.
- Barnard, R., & Leadley, P. W. (2005). *Global change , nitrification , and denitrification : A review*. *Global change , nitrification , and denitrification : A review*. May 2014. <https://doi.org/10.1029/2004GB002282>
- Casagrande, C. ., Kunz, A., Soares, H., Bressan, C., & De Pra, M. C. (2013). High Nitrogen Removal Rate Using Anammox Process at Short Hydraulic Retention

Time. *Water Science & Technology, Water Scie*(July), 10.
<https://doi.org/10.2166/wst.2013.641>

Chen, C., Huang, X., Lei, C., Zhu, W., Chen, Y., & Wu, W. (2012). Improving Anammox start-up with bamboo charcoal. *Chemosphere*, 89(10), 1224–1229.
<https://doi.org/10.1016/j.chemosphere.2012.07.045>

Chen, J., Ji, Q., Zheng, P., Chen, T., & Wang, C. (2010). Floatation and control of granular sludge in a high-rate anammox reactor. *Water Research*, 44(11), 3321–3328. <https://doi.org/10.1016/j.watres.2010.03.016>

Dapena-mora, A., Fern, I., Campos, J. E., Mosquera-corrall, A., & Jetten, M. S. M. (2007). *Evaluation of activity and inhibition effects on Anammox process by batch tests based on the nitrogen gas production*. 40, 859–865.
<https://doi.org/10.1016/j.enzmictec.2006.06.018>

Djuwansah, M. R., Suriadarma, A., Suherman, D., Rusydi, A. F., & Naili, W. (2009). Pencemaran Air Permukaan dan Airtanah Dangkal di Hilir Kota Cianjur. *Jurnal Riset Geologi Dan Pertambangan*, 2(2), 109–121.

Effendi, H. (2003). *Telaah Kualitas Air Bagi Pengelolaan Sumberdaya Lingkungan Perairan. Jurusan Manajemen Sumberdaya Perairan* (1st ed.). Penerbit Kanisius.
https://books.google.co.id/books?hl=en&lr=&id=HyjDhfW87B0C&oi=fnd&pg=PA5&ots=G7UFWtEOP-&sig=iTHZbd8yjd8jko7faYYcH2tAXzM&redir_esc=y#v=onepage&q&f=false

Ermaliza, W. (2019). *Penyisihan Nitrogen dengan Proses Anammox Memanfaatkan Ijuk sebagai Media Lekat pada Reaktor Up-Flow Anaerobic Sludge Blanket*. Universitas Andalas

Ginting, P. (2007). *Sistem Pengelolaan Lingkungan Dan Limbah Industri* (Cetakan Pe). Yrama Widya.

Hastuti, Y. P. (2011). Nitrifikasi dan denitrifikasi di tambak Nitrification and denitrification in pond. *Jurnal Akuakultur Indonesia*, 10(1), 89–98.

Hutagalung, H. P., Setiapermana, D., & Riyono, S. . (1997). *Metode Analisis Air Laut, Sedimen Dan Biota* (2nd ed.). Puslitbang Oseanologi-LIPI.

Isaka, K., Sumino, T., & Tsuneda, S. (2007). *High Nitrogen Removal Performance at Moderately Low Temperature Utilizing Anaerobic Ammonium Oxidation*

Reactions. 103(5), 486–490. <https://doi.org/10.1263/jbb.103.486>

Jin, R., Hu, B., Zheng, P., Qaisar, M., Hu, A., & Islam, E. (2008). Quantitative Comparison of Stability of Anammox Process in Different Reactor Configurations. *Bioresource Technology* 99 (2008) 1603–1609, 99, 1603–1609. <https://doi.org/10.1016/j.biortech.2007.04.018>

Jin, R., Yang, G., Yu, J., & Zheng, P. (2012). The inhibition of the Anammox process : A review. *Chemical Engineering Journal*, 197, 67–79. <https://doi.org/10.1016/j.cej.2012.05.014>

Kumar, M., Daverey, A., & Gu, J. (2017). *Anammox Processes* (Issue January). <https://doi.org/10.1016/B978-0-444-63665-2.00015-1>

Lavik, G., & Kuenen, J. G. (2003). *Anaerobic ammonium oxidation by anammox bacteria in the Black Sea*. March 2014. <https://doi.org/10.1038/nature01472>

Lin, X., & Wang, Y. (2017). Microstructure of anammox granules and mechanisms endowing their intensity revealed by microscopic inspection and rheometry. *Water Research*, 120, 22–31. <https://doi.org/10.1016/j.watres.2017.04.053>

Lotti, T., Kleerebezem, R., Hu, Z., Kartal, B., Jetten, M. S. M., & Loosdrecht, M. C. M. Van. (2014). *ScienceDirect Simultaneous partial nitritation and anammox at low temperature with granular sludge*. 6. <https://doi.org/10.1016/j.watres.2014.07.047>

Lotti, T., Kleerebezem, R., Lubello, C., & Loosdrecht, M. C. M. Van. (2014). *ScienceDirect Physiological and kinetic characterization of a suspended cell anammox culture*. *Water Research*, 60, 1–14. <https://doi.org/10.1016/j.watres.2014.04.017>

Lotti, T., Star, W. R. L. Van Der, Kleerebezem, R., Lubello, C., & Loosdrecht, M. C. M. Van. (2012). The effect of nitrite inhibition on the anammox process. *Water Research*, 46(8), 2559–2569. <https://doi.org/10.1016/j.watres.2012.02.011>

Lu, H., Zheng, P., Ji, Q., Zhang, H., Ji, J., Wang, L., Ding, S., Chen, T., Zhang, J., Tang, C., & Chen, J. (2012). The Structure , Density and Settability of Anammox Granular Sludge in High-Rate Reactors. *Bioresource Technology*, 123, 312–317. <https://doi.org/10.1016/j.biortech.2012.07.003>

Mahida, U. N. (1983). *Water pollution and disposal of waste water on land*. Tata

McGraw-Hall.

- Marie, P. S., Pümpel, T., Markt, R., Murthy, S., Bott, C., & Wett, B. (2015). Comparative evaluation of multiple methods to quantify and characterise granular anammox biomass. *Water Research*, 68, 194–205. <https://doi.org/10.1016/j.watres.2014.10.005>
- Ni, S., Gao, B., Wang, C., Lin, J., & Sung, S. (2011). Bioresource Technology Fast start-up , performance and microbial community in a pilot-scale anammox reactor seeded with exotic mature granules. *Bioresource Technology*, 102(3), 2448–2454. <https://doi.org/10.1016/j.biortech.2010.11.006>
- Oshiki, M., Shimokawa, M., Fujii, N., Satoh, H., & Okabe, S. (2011a). Physiological characteristics of the anaerobic ammonium-oxidizing bacterium “Candidatus Brocadia sinica.” *Microbiology*, 157(6), 1706–1713. <https://doi.org/10.1099/mic.0.048595-0>
- Oshiki, M., Shimokawa, M., Fujii, N., Satoh, H., & Okabe, S. (2011b). Physiological characteristics of the anaerobic ammonium-oxidizing bacterium “Candidatus Brocadia sinica.” *Microbiology*, 157(6), 1706–1713. <https://doi.org/10.1099/mic.0.048595-0>
- Prabowo, R. (2001). Kadar Nitrit Pada Sumber Air Sumur Dikelurahan Meteseh, Kec. Tembalang, Kota Semarang. *Cendikia Eksakta*, 55(1), 55–61.
- Pratiwi, N. I., Huwaida, A., Indah, S., & Helard, D. (2019). *Jurnal Riset Adsorption and Regeneration of Sungai Pasak Pumice as An Adsorbent for Ammonium Removal in Water*. 10(1), 38–46.
- Pratiwi, N. I. K. A. (2017). *Studi regenerasi batu apung sungai pasak pariaman sebagai adsorben untuk menyisihkan amonium (nh 4+) dalam air tanah tugas akhir*. Universitas Andalas.
- Prayitno, & Sholeh, M. (2014). Pengurangan nitrogen pada limbah cair terolah industri penyamakan kulit menggunakan sistem wetland buatan. *Majalah Kulit, Karet, Dan Plastik*, 30(2), 79. <https://doi.org/10.20543/mkcp.v30i2.129>
- Putra, I. H. (2019). *Nitrogen Menggunakan Up-Flow Anaerobic Sludge Blanket (UASB) Reaktor*. Universitas Andalas, Padang.
- Putra, R. P., Zulkarnaini, & Komala, P. S. R. I. (2020). Start – Up Proses Anammox

Menggunakan Lumpur Telaga Koto Baru sebagai Inokulum Start-Up Anammox Process Using Sludge from Koto Baru Lake as Inoculum. *Jurnal Teknologi Lingkungan*, 21(1), 9.

Ridha, M., & Darminto, D. (2016). Analisis Densitas, Porositas, dan Struktur Mikro Batu Apung Lombok dengan Variasi Lokasi dan Kedalaman. *Jurnal Fisika Dan Aplikasinya*, 12(3), 124–130. <https://doi.org/10.12962/j24604682.v12i3.1403>

Said, I. N., & Ruliasih. (2005). Tinjauan Aspek Teknis Pemilihan Media Biofilter Untuk Pengolahan Air Limbah. *Jurnal Air Indonesia*, 1(3), 272–281.

Sari, C. M. (2016). *Studi Kemampuan Batu Apung Sungai Pasak Pariaman sebagai Adsorban dalam Penyisihan dari Air Tanah*. Universitas Andalas.

Strous, M., Fuerst, J., & Muyzer, G. (1999). *Letter to Nature Missing Lithotroph Identified as New Planctomycete. May 2014*. <https://doi.org/10.1038/22749>

Tuyen, N. V., Ryu, J. H., Yae, J. B., Kim, H. G., Hong, S. W., & Ahn, D. H. (2018). Journal of Industrial and Engineering Chemistry Nitrogen removal performance of anammox process with PVA – SA gel bead crosslinked with sodium sulfate as a biomass carrier. *Journal of Industrial and Engineering Chemistry*. <https://doi.org/10.1016/j.jiec.2018.07.004>

van de Graaf, A. A., de Bruijn, P., Robertson, L. A., Jetten, M. S. M., & Kuenen, J. G. (1996). *Autotrophic growth of anaerobic ammonium-oxidizing micro-organisms in a fluidized bed reactor* (p. 10).

Wang, T., Zhang, H., Yang, F., Li, Y., & Zhang, G. (2013). Chemosphere Start-up and long-term operation of the Anammox process in a fixed bed reactor (FBR) filled with novel non-woven ring carriers. *Chemosphere*, 7. <https://doi.org/10.1016/j.chemosphere.2013.01.026>

Zhang, J., Li, J., Zhao, B., Zhang, Y., Wang, X., & Chen, G. (2019). Chemosphere Long-term effects of N-acyl-homoserine lactone-based quorum sensing on the characteristics of ANAMMOX granules in high-loaded reactors. *Chemosphere*, 218, 632–642. <https://doi.org/10.1016/j.chemosphere.2018.11.170>

Zhang, W., Jin, X., Liu, D., Lang, C., & Shan, B. (2017). Temporal and spatial variation of nitrogen and phosphorus and eutrophication assessment for a typical arid river

— Fuyang River in northern China. *Journal of Environmental Sciences (China)*, 55, 41–48. <https://doi.org/10.1016/j.jes.2016.07.004>

Zulkarnaini, Z., Yamamoto-ikemoto, R., & Matsuura, N. (2018). One-Stage Nitritation / Anammox Process Using a Biofilm Reactor with Two-Inflow. *Journal of Water and Environment Technology*, 16(January), 106–104. <https://doi.org/10.2965/jwet.17-050>

