

DAFTAR PUSTAKA

- Agustina A., Suprihatin Iryanti E., Sibarani J. 2016. **Pengaruh Biofilm Terhadap Efektivitas Penurunan BOD, COD, TSS, Minyak dan Lemak dari Limbah Pengolahan Ikan Menggunakan Trickling Filter.** *Jurnal of Applied Chemistry*. Vol 4(2): 141-143.
- Agrawal L. K., Ohashi Y., Mochida E., Okui H., Ueki Y., Harada H. And Ohashi A. 1997. **Treatment of raw sewage in a temperate climate using a UASB reactor and the hanging sponge cubes process.** *Water Sci. And Technol.*, 36(6-7), 433-440
- Alsahy Q. F., Al-Ani F. H., Al-Najar A. E. 2018. **A new Sponge-GAC-Sponge membrane module for submerged membrane bioreactor use in hospital wastewater treatment.** *Biochemical Engineering Journal*. 133, 130-139
- Avefarizqa, B., Suparmin. 2016. **Efisiensi IPAL untuk Menurunkan Kadar COD (Chemical Oxygen Demand) di Rumah Sakit Wijaya Kusuma Purwokerto.** *Jurnal Kesehatan Lingkungan Masyarakat*. Vol 35 (250), 152-277.
- Azizah. 2011. **Pedoman Teknis IPAL dengan sistem biofilter Anaerobic dan Aerob,** Bakti Husada:Jakarta.
- Behera, M., Jana Partha S., More T. Tanaji, dan Ghangrekar M.M. 2010. **Rice mill wastewater treatment in microbial fuel cells fabricated using proton exchange membrane and earthen pot at differet pH.** *Journal Bioelectro chemistry* Vol. 79, 228- 233.
- Chopra, A.K., Sharma, A.K., 2013. **Removal of Turbidity, COD and BOD from Secondary Treated Sewage Water by Electrolytic Treatment.** *Appl. Water Sci.* Vol. 3, 125-132.
- Faehan, O. A., & A., T.A. 2009. **Modelling and Simulation of Methanogenic Phase of an.** *Engineering Research*. 13. 1-16.
- Fatmawati, Sri Nastiti, Joni Hermana dan Agus Slamet. 2016. **Optimasi Kinerja Instalasi Pengolahan Air Limbah Industri Penyamakan Kulit Magetan.** *Jurnal Teknik ITS*. Vol.5. No.2. 79-85
- Feng, H.J., L.F.Hu, Q. Mahmood, C.D. Qiu, C.R. Fang, dan D.S. Shen. 2008. **Anaerobic Domestic Wastewater Treatment with Bamboo Carrier Anaerobic Baffled Reactor.** *Internatioal Biodeterioration & Biodegradation*. Vol.62. 232-238
- Gutterer, B., Sasse L., Panzerbieter T., Reckerzugel T., 2009. **Decentralized Wastewater Treatment System (DEWATS) and Sanitation in developing Counties.** German: BORDA

- Herlambang, A., Marsidi, R., 2003. **Proses Denitrifikasi dengan Sistem Biofilter untuk Pengolahan Air Limbah yang mengandung Nitrat.** Jurnal Teknologi Lingkungan. Vol 4(1): 46-55
- Komala, P.S., D. Helard dan D. Delimas. **Identifikasi Mikroba Anaerob Dominan pada Pengolahan Limbah Cair Pabrik Karet dengan Sistem Multi Soil Layering (MSL).** Jurnal Teknik Lingkungan UNAND. Vol. 9 No. 1. Januari 2012: 74-88.
- Krisdiana, Elsa. 2015. **Kontrol pH Pada Reaktor TPAD (Temperature Phased Anaerobic Digestion) Bagian Reaktor Hidrogen Termofilik.** Program Studi Teknik Fisika Universitas Telkom, Bandung.
- Kubota, K., Hayashi, M., Matsunaga, K., Iguchi, A., Ohashi, A., Li, Y.Y., Yamaguchi, T., Harada, H., 2013. **Microbial community composition of a Down-flow Hanging Sponge (DHS) Reactor combined with an up-flow anaerobic sludge blanket (UASB) reactor for the treatment of municipal sewage.** *Bioresour. Technol.* 151, 144–150
- Lestari, R, Puji, 2011. **Pengujian Kualitas Air di Instalasi Pengolahan Air Limbah (IPAL) Mojosongo Kota Surakarta.** Skripsi Teknik Sipil Fakultas Teknik Universitas Sebelah Maret Surakarta.
- Machdar, I., Sekiguchi, Y., Sumino, H., Ohashi, A., & Harada, H. (2000). **Combination of a UASB reactor and a curtain type DHS (downflow hanging sponge) reactor as a cost-effective sewage treatment system for developing countries.** *Water Science and Technology*, 42(3–4), 83–88
- Machdar, I., Muhammad, S., Onodera, T., Syutsubo, K., & Akiyoshi Ohashi, dan. (2017). **Unjuk Kerja Down-Flow Hanging Sponge (DHS) Bioreaktor sebagai Secondary Treatment untuk Pengolahan Limbah Domestik.** *Jurnal Litbang Industri*, Vol 7(1), 11–18
- Metcalf dan Eddy, 2003, **Wastewater Engineering, Treatment and Reuse, fourth edition**, Metcalf&Eddy, Inc, McGraw Hill, New York
- Muttamara, S. 1996. **Wastewater characteristics.** Resources, Conservation and Recycling. Vol. 16, 145-159
- Naz I., Sehar S., Rehman A., Khan Ullah Z., Ali N., Ahmed S. 2015. **Performance Evaluation Of Stone Media Pro-type Pilot Scale Trickling Filter Biofilter System For Municipal Wastewater Treatment.** *Journal Desalination and Water Treatment*. Vol 3, 1-14
- Nurhadi, 2010. **Evaluasi Kinerja Reaktor Upflow Anaerobic Sludge Blanket (UASB) dan Downflow Hanging Sponge (DHS) Dalam Mengolah Air Limbah Domestik. Kajian Terhadap Kualitas Air Waduk Setiabudi Jakarta Selatan.** Tesis. Universitas Indonesia. Jakarta
- Nurjanah, S., Zaman, B., & Syakur, A. (2017). **Penyisihan BOD dan COD Limbah Cair Industri Karet Dengan Sistem Biofilter Aerob**

- dan Plasma Dielectric Barrier Discharge (DBD).** Jurnal Teknik Lingkungan. Universitas Diponegoro, Vol 6.
- Peraturan Menteri Lingkungan Hidup dan Kehutanan Republik Indonesia No. 68 Tahun 2016 tentang **Baku Mutu Air Limbah Domestik.**
- Pekerjaan Umum Perumahan Rakyat, 2016. *Hasil Uji Air Limbah Domestik, Daerah Istimewa Yogyakarta*
- Peraturan Daerah Daerah Istimewa Yogyakarta. 2016. **Baku Mutu Air Limbah.** D.I. Yogyakarta
- Prisanto, D, Eko., Yanuwidi, B., Soemarno, 2015. **Studi Pengelolaan IPAL (Instalasi Pengolahan Air Limbah) Domestik Komunal di Kota Blitar, Jawa Timur.** Jurnal PAL., Vol. 6(1) : 75-76
- Purba, I, R, Katrina., 2012. *Down-flow Hanging Sponge (DHS) dalam mengolah Air Limbah Domestik di Jakarta.* Skripsi Teknik Lingkungan Fakultas Teknik Universitas Indonesia.
- Rhomaidhi, 2008. *Pengelolaan Sanitasi secara terpadu Sungai Widuri: Studi Kasus ampung Nitiprayan Yogyakarta.* Skripsi Teknik Lingkungan Fakultas Teknik Sipil Dan Perencanaan Universitas Islam Indonesia
- Said, Nusa Idaman. 2017. **Teknologi Pengolahan Air Limbah.** Jakarta: Erlangga
- Salmin, 2005. **Oksigen Terlarut (DO) dan Kebutuhan Oksigen Biologi (BOD) sebagai Salah Satu Indikator Untuk Menentukan Kualitas Perairan.** Jurnal Oseana., Vol. 30(3) : 23-25
- Singh, S., R. Haberl, O. Moog, R.R. Shrestha, P. Shrestha dan R. Shrestha. 2009. *Performance of An Anaerobic Baffled Reactor and Hybrid Constructed Wetland Treating High-Strange Wastewater in Nepal – A Model for DEWATS.* Ecological Engineering. Vol. 35. 654-660
- SNI 06-2412-1991 tentang **Metode Pengambilan Contoh Kualitas Air.**
- SNI 06-6989.14-2004 tentang **Air dan Air Limbah - Bagian 14: Cara Uji Oksigen Terlarut Secara Iodometri (modifikasi azida).**
- SNI 6989.72-2009 tentang **Cara Uji Kebutuhan Oksigen Biokimia Biochemical Oxygen Demand (BOD).**
- Selintung M., Hatta P M., Ikramuddin A. T. M., 2006. **Evaluasi Sistem Instalasi Pengolahan Air Limbah (IPAL) Komunal Berbasis Masyarakat di Kecamatan Rappocini Kota Makassar.** CV. Healthy and Sanitation, Vol.14 : 1-15
- Tandukar, M., Machdar, I., Uemura, S., Ohashi, A., & Harada, H., 2005. *Journal Water Science and Technology, A low-cost Municipal Sewage Treatment System With A Combination of UASB and The “Fourth*

Generation Downflow Hanging Sponge Reactors". IWA Publishing, Vol. 52 No.1-2 pp. 323-329

Tandukar, M., Machdar, I., Uemura, S., Ohashi, A., & Harada, H.,, 2006. *Potential of Combination of UASB and DHS Reactor as a Novel Sewage Treatment System for Developing Countries: Long-Term Evaluation*. Journal ASCE, Vol 132(2) : 166-172

Tchnobagus dan Burton. 1983. *Wastewater Engineering: Treatment, Disposal and Reuse*. 4th Edition. New York: McGraw-Hill

Tilley E., Ulrich L., Luthi C., Reymond P., Zurbrigg C., 2010. *Conpendium of sanitation system and techologies*. Swiss: Water Supply and Sanitation

Van Lier Jules , B 2008, **High Rate anaerobik Waste water Treatment : Diversyng from End of Pipe Treatment to Recource Oriented Conversion Techniques**, " Water science & Technology (WST(57.8.8 : 1137–1148

Wardana, A.W. 1999. **Dampak Pencemaran Lingkungan**. Yogyakarta: Andi Offset