

DAFTAR PUSTAKA

- Anonim, 1992, *Standard Methods for Examination of Water and Wastewater*, 18th ed., American Public Health Association, Washington.
- Anonim, 2004, *Air dan Air Limbah- Bagian 3: Cara Uji Padatan Tersuspensi Total (Total Suspended Solid, TSS) Secara Gravimetri*, SNI 06-6989.3-2004.
- Anonim, 2005, *Air dan Air Limbah- Bagian 30: Cara Uji Kadar Amonia dengan Spektrofotometer Secara Fenat*, SNI 06-6989.30-2005.
- Anonim, 2006, *Penerapan Produksi Bersih Industri Tahu*, Penerbit Pusat Produksi Bersih Nasional, Kementerian Negara Lingkungan Hidup (KLH), Jakarta.
- Anonim, 2008, *Peraturan Menteri Negara Lingkungan Hidup No. 15 Tahun 2008 Tentang Baku Mutu Air Limbah Bagi Usaha dan/atau Kegiatan Pengolahan Kedelai*.
- Anonim, 2009, *Air dan Air Limbah- Bagian 73: Cara Uji Kebutuhan Oksigen Kimiawi (Chemical Oxygen Demand/COD) dengan Refluks Tertutup Secara Titrimetri*, SNI 6989.73-2009.
- Antara, N.Y., 1993, *Aklisasi Lumpur Aktif dan Penerapannya dalam Pengolahan Limbah Cair Industri Tahu*, Tesis, Ilmu dan Teknologi Pangan, Universitas Gadjah Mada, Yogyakarta.
- Barbusinski, K., 2005, Toxicity of Industrial Wastewater Treated by Fenton's Reagent, *Pol. J. Environ. Stud.*, 14, 1, 11-16.
- Daneshvar, N., Hejazi, M.J., Rangarany, B. and Khatae, A.R., 2004, Photocatalytic Degradation of Anorganophosphorus Pesticide Phosalone in Aqueous Suspensions of Titanium Dioxide, *J. Environ. Sci. Health. B.*, 39, 285-296.
- Dixit, A., Mungray, A.K. and Chakraborty, M., 2010, Photochemical Oxidation of Phenol and Chlorophenol by UV/H₂O₂/TiO₂ Process: A Kinetic Study, *Int. J. Chem. Eng. Appl.*, 1, 3.
- Fox, H., Newman, K.E., Schneider, W.F. and Corcelli, S.A., 2010, Bulk and Surface Properties of Rutile TiO₂ from Self-Consistent-Charge Density Functional Tight Binding, *J. Chem. Theory Comput.*, 6, 499-507.
- Fox, M. and Dulay, M., 1993, Heterogeneous photocatalysis, *Chem. Rev.*, 93, 341-357

- Hoffmann, M.R., Martin, S.T., Choi, W. and Bahnemann, D.W., 1995, Environmental Applications of Semiconductor Photocatalysis, *Chem. Rev.*, 95, 69-96.
- Hu, C., Yu, J.C., Hao, Z. and Wong, P.K., 2003, Effect of Acidity and Inorganic Ions on The Photocatalytic Degradation of Different Azo Dyes, *Appl. Catal. B-Environ.*, 46, 35.
- Husin, A., 2003, *Pengolahan Limbah Cair Industri Tahu Menggunakan Biji Kelor (Moringa oleifera Seeds) Sebagai Koagulan*, Laporan Penelitian Dosen Muda, Fakultas Teknik USU, Medan.
- Husin, A., 2008, *Pengolahan Limbah Cair Industri Tahu dengan Biofiltrasi Anaerob dalam Reaktor Fixed-Bed*, Tesis, Program Pascasarjana USU, Medan.
- Jain, R. and Sikarwar, S., 2008, Photodestruction and COD Removal of Toxic Dye Erioglaucine by TiO₂-UV Process: Influence of Operational Parameters, *Int. J. Phys. Sci.*, 3, 12, 299-305.
- Khiatudin, M., 2003, *Melestarikan Sumber Daya Air Dengan Teknologi Rawa Buatan*, Gama Press, Yogyakarta.
- Kim, Y., Sasaki, S., Hashimoto, K. and Ikebukuro, K., 2001, Photocatalytic Sensor for The Determination of Chemical Oxygen Demand Using Flow Injection Analysis, *Anal. Chim. Acta*, 432, 59-66.
- Krimm, S. and Bandekar, J., 1986, Vibrational Spectroscopy and Conformation of Peptides, Polypeptides and Proteins, *Adv. Protein Chem.*, 38, 181-386.
- Krisnasiwi, I.F., 2013, *Penurunan Nilai COD pada Limbah Cair Industri Obat Berbahan Herbal dengan Metode Fotodegradasi Terkatalisis TiO₂ dan Oksidasi Oleh Kaporit*, Tesis, Departemen Kimia, FMIPA UGM, Yogyakarta.
- Kumar, B.N., Anjaneyulu, Y. and Himabindu, V. 2011, Comparative Studies of Degradation of Dye Intermediate (H-acid) Using TiO₂/UV/H₂O₂ and Photo-Fenton Process, *J. Chem. Pharm. Res.*, 3, 2, 718-731.
- Liestiono, M.R.P., 2014, *Pengaruh H₂O₂ terhadap Proses Fotodegradasi Terkatalisis TiO₂ untuk Menurunkan Nilai COD Limbah Cair Industri Obat Herbal*, Tesis, Departemen Kimia, FMIPA UGM, Yogyakarta.
- Lucarelli, L., Nadtochenko, V. and Kiwi, J., 2000, Environmental Photochemistry: Quantitative Adsorption and FTIR Studies During The TiO₂-photocalized degradation of Orange II, *Langmuir*, 16, 1102-1108.

- MetCalf and Eddy, 2003, *Wastewater Engineering: Treatment, Disposal and Reuse*, 4th ed., McGraw Hill Book Co., New York.
- Mukaromah, A.H., 2004, Pengaruh Ion Fe (III) terhadap Efektivitas Fotodegradasi p-Klorofenol Terkatalisis TiO₂, *Tesis*, Program Studi Kimia FMIPA UGM, Yogyakarta.
- Murdjito, G., 1995, Pemanfaatan Limbah Tahu (Air Tahu) Sebagai Komporan Sapi Penggemukan dan Pendapatan Pengusaha Tahu di Pedesaan, *Buletin Peternakan*, 13, 31-38.
- Parra, S., Sarria, V., Malato, S., Peringer, P. and Pulgarin, C., 2000, Photochemical versus coupled photochemical-biological flow system for the treatment of two biorecalcitrant herbicides: metobromuron and isoproturon, *Appl. Catal. B-Environ.*, 27, 3, 153-168.
- Pavia, D.L., Lampman, G.M. and Kriz, G.S., 2001, *Introduction to Spectroscopy*, 3rd Ed., Thomson Learning, Washington DC.
- Pignatello, J.J., Oliveros, E. and MacKay, A., 2006, Advanced Oxidation Processes for Organic Contaminant Destruction Based on The Fenton Reaction and Related Chemistry, *Crit. Rev. Environ. Sci. Technol.*, 37, 3, 273-275.
- Purnama, P., 2007, Pra-rancangan Instalasi Pengolahan Air Limbah Tahu Studi Kasus Pabrik Tahu Desa Tempel Sari Kecamatan Kalikajar Kabupaten Wonosobo, *Tesis*, Fakultas Teknik, Program Studi Magister Sistem Teknik UGM, Yogyakarta.
- Purnobasuki, H., Oktavitri, N.I. and Nurhariyati, T., 2015, Fluctuation concentration of organic compound in anaerobic batch reactor with *Imperata cylindrica* and *Eichornia crassipes* as packed media, *J. Chem. Pharm. Res.*, 7, 3, 2180-2188.
- Putra, R., Lebu, B., Munthe, M.D. and Rambe, A.M., 2013, Pemanfaatan Biji Kelor Sebagai Koagulan pada Proses Koagulasi Limbah Cair Industri Tahu dengan Menggunakan Jar Test, *J. Teknik Kimia USU*, 2, 2.
- Ratnani, R.D., 2011, Kecepatan Penyerapan Zat Organik pada Limbah Cair Industri Tahu dengan Lumpur Aktif, *J. Momentum*, 7, 2, 18 – 24.
- Samet, T., Munter, R. and Abo, S.A., 2001, Advanced Oxidation Processes-Current Status and Prospect, *Proc. Estonian. Acad. Sci. Chem.*, 2, 50, 59-80.
- Samuel, P., Hullar T. and Anastasio C., 2011, Yields of Hydrogen Peroxide from The Reaction of Hydroxyl Radical with Organic Compounds in Solution and Ice, *Atmos. Chem. Phys.*, 11, 7209-7222.

- Santos, F.V., Azevedo, E.B., Sant'Anna Jr., G.L. and Dezotti, M., 2006, Photocatalysis as A Tertiary Treatment for Petroleum Refinery Wastewaters, *Braz. J. Chem. Eng.*, 23, 04, 451-460.
- Sastrohamidjojo, H., 1992, *Spektroskopi Inframerah*, Edisi Pertama, Penerbit Liberti, Yogyakarta.
- Sudiyani, Y., Alawiyah, S., Anita, Y. and Adilina, I.B., 2007, Characterization of Waste Water from Tofu Industry, *Proceeding of International Conference on Chemical Sciences*, 24-26 May 2007, Yogyakarta, 1-4.
- Sugiharto, 1994, *Dasar-dasar Pengolahan Air Limbah*, Penerbit Universitas Indonesia, Jakarta.
- Syoufian, A. and Nakashima, K., 2008, Degradation of methylen blue in aqueous dispersion of hollow titania photocatalyst: Study of reaction enhancement by various electron scavengers. *J. Coll. and Inter. Sci.*, 317, 512.
- Talinli, I. and Anderson, G.K., 1992, Interference of Hydrogen Peroxide on Standard COD Test, *Water Res.*, 26, 1, 107-110.
- Tang, W.Z., 2004, *Physicochemical Treatment of Hazardous Wastes*, CRC-Press, Boca Raton-Florida.
- Tay, J.H., 1990, Biological Treatment of Soya Bean Waste, *J. Water Science & Technology*, 22, 9, 141-147.
- Upe, A., 2001, Model Kinetika Biodegradasi Limbah Cair PT Kimia Metode Activated Sludge, *Jurnal Kimia Lingkungan*, 3, 1, 9-16.
- Yulianti, W., 2001, Kemampuan Eceng Gondok Sebagai Biofilter Zat Tersuspensi Pada Konsentrasi Efektif Limbah Cair Tahu, *J. Habitat Universitas Brawijaya Malang*, 23-25.
- Zhu, X., Chunwei, Y. and Huilan, C., 2006, Photocatalytic Degradation of Pesticide Pyridaben in Surfactant/TiO₂ Aqueous Dispersions, *Environ. Sci. Technol.*, 10, 1021.