



DAFTAR PUSTAKA

- Agustin, T., Prasetya, N.B.A., dan Widodo, T.S., 2013, Sintesis Komposit TiO₂-Karbon Aktif untuk Fotokatalisis Larutan Zat Warna Direct Blue 19 dan Ion Logam Pb²⁺ dan Cd²⁺ secara Simultan, *Jurnal Kimia Sains dan Aplikasi* 16 (3) (2013) : 102 – 107.
- Agustina, 2013, Pembuatan Kitosan dari Cangkang Udang dan Aplikasinya Sebagai Adsorben untuk Menurunkan Kadar Logam Cu. *Seminar Nasional FMIPA UNDIKSHA*. 2013.
- Ahmed, B., Limem, E., Wahab, A., and Nasr, B., 2011. Photo-Fenton Treatment of Actual Agro-industrial Wastewater, *Indian J. Eng. Chem. Res.*, 50, 6673-6680.
- Amat, A.M., Arques, A., Lopez, F., and Miranda, M.A., 2005, Solar photocatalysis to remove paper mill wastewater pollutants. *Sol Energy* 79(4): 393-401.
- Amy, L., Linsebigler, Guangquan Lu, John T, and. Yates, 1996, Photocatalysis on TiO₂ Surfaces: Principles, Mechanisms, and Selected Results, *Chemical Reviews*, 95, 735-758.
- Aramyan, S.M., and Mohsen Moussavi, 2017, Advances In Fenton And Fenton Based Oxidation Processes For Industrial Effluent Contaminants Control-A Review, *Int J Environ Sci Nat Res*.
- Arnold, S.M., Hickey W.J., and Harris R.F., 1995, Degradation of atrazine by Fenton's reagent: condition optimization and product quantification. *Environ Sci Technol* 29(8): 2083-2089.
- Babuponnusami, A., and Muthukumar, K., 2014, A review on Fenton and improvements to the Fenton process for wastewater treatment. *Journal of Environmental Chemical Engineering*, 2, 557-572.
- Barbusinski, K., 2009, Fenton Reaction – Controversy Concerning the Chemistry, *Journal of Ecological Chemistry and Engineering*. 16. 347-358.
- Beverskogt, B., and Puigdomenech, I., 1997, Revised Pourbaix Diagrams For Zinc At 25-300°C, *Corrosion Science*, Vol. 39, No. 1, Pp. 107-L 114.
- Bokare, A., and Choi, W., 2014, Review of iron-free Fenton-like systems for activating H₂ O₂ in advanced oxidation processes. *J Hazard Mater* 275: 121-135.
- Chen, H., Zhao, J., Dai, G., Wu, J., and Yan, W., 2010, Adsorption characteristic of Pb(II) from aqueous solution onto a natural biosorbent fallen



Cinnamomum camphora leaves. *Desalination.*

Darmono, 2001, Lingkungan Hidup dan Pencemaran: Hubungannya Dengan Toksikologi Senyawa Logam. Jakarta: UI Press. Hal. 28 – 29.

Day, R.A., and Underwood, A.L., 2002, Analisis Kimia Kuantitatif, Edisi Keenam, Jakarta. Penerbit Erlangga. Hal 394, 396-404.

Deng, Y., and Englehardt, J.D., 2006, Treatment of landfill leachate by the Fenton process. *Water Res* 40(20): 3683-3694.

Dincer, A.R., Karakaya, N., Gunes, E., and Gunes, Y., 2008, Removal of COD from oil recovery industry wastewater by the Advanced Oxidation Processes (AOP) based on H₂O₂. *Global NEST Journal* 10: 31-38.

Fardiaz, S., 1995, Pengembangan Industri Pengolahan Hasil Perikanan di Indonesia: Tantangan dan Penerapan Sistem Jaminan Mutu. *Buletin Teknologi & Industri Pangan Institut Pertanian Bogor Volume VI Nomor 1 April 1995.* Hal 65-73.

Fatmawati, F.X., Sulistiyanto, W., dan Rininingsih, E.M., 20017, Penggunaan Kombinasi Fotokatalis TiO₂ Dan Arang Aktif Untuk Pengolahan Limbah Farmasi, Sekolah Tinggi Ilmu Farmasi, Semarang.

Fujishima, A., Rao, T.N., and Tryk, D.A., 2000, Titanium dioxide photocatalysis. *Journal of Photochemistry and Photobiology, C: Photochemistry Reviews*, 1, 1–21.

Gulkaya, I., Surucu, A., and Dilek, F, 2006, Importance of H₂O₂/Fe⁺² ratio in Fenton's treatment of a carpet dyeing wastewater. *J. Hazard. Mater.* 136, 763.

Gupta, V.K., and Ali, I., 2004, Removal of Lead and Chromium from Wastewater Using Bagasse Fly Ash-a Sugar Industry Waste, *J. Col. Int.Sci.* 271, 321-328.

Hasan, D.B., Aziz, A.R., and Daud, W.M., 2012 Oxidative mineralization of petroleum refinery effluent using Fenton-like process. *Chem Eng Res Des* 90(2): 298-307.

Hernández, M.A., Henao, A.CA., Marín, C.N., and Castañeda, H.T, 2012, Solar Photo-Fenton Optimisation In Treating Carbofuran-Contaminated Water Optimización Del Proceso Foto-Fenton Solar Para El Tratamiento De Agua Contaminada Con Carbofurano, *Ing. Inv.*, Volume 32, Issue 1, P.

Huheey, J. E., 1978, Inorganic Chemistry; Principles of Structure and Reactivity. Second Edition. harper & Row, Publishers, Inc. New York.

Kang, Y.W., and Hwang, K.Y., 2000, Effects of Reaction Conditions on the



Oxidation Efficiency in the Fenton Process. *Water Research*, 34, 2786-2790.

Jafari, M.H., Mahvi, J.A., and Jonidi., 2014, Removal of lead and zinc from battery industry wastewater using electrocoagulation process: influence of direct and alternating current by using iron and stainless steel rod electrodes, *Sep. Purif. Technol.* 135 (2014) 165–175

Khan, M. R., Hegde, R., and Shabiimam, M.A., 2017, Adsorption Of Lead By Bentonite Clay, *IJSRM Volume 5*.

Marwati, S., Padmaningrum, dan Marfuatun, 2009, Heavy Metal Ions Exploiting Of Cu(Ii), Cr(Iii), Pb(Ii), And Zn(Ii) In Industrial Liquid Waste Of Electroplating For The Coating Of Iron Metal *Prosiding Seminar Nasional Penelitian, Pendidikan dan Penerapan MIPA, Fakultas MIPA, Universitas Negeri Yogyakarta*

Mosteo, R., Ormad M.P., and Ovelleiro, J.L., 2007, Photo-Fenton processes assisted by solar light used as preliminary step to biological treatment applied to winery wastewaters. *Water Sci Technol* 56(2): 89-94.

Neyens, E., and Baeyens, J., 2003, A review of classic Fenton's peroxidation as an advanced oxidation technique. *J Hazard Mater* 98(1-3): 33-50.

Nowak, K.M., 2010, Application of ceramic membranes for the separation of dye particles, *J Destination*, 254, 185-191.

Parsons, S., 2004, Advanced Oxidation Processes for Water and Wastewater Treatment, IWA Publishing, Alliance House, 12 Caxton Street, London.

Pham, T.T., Brar, S.K., Tyagi, R.D., and Surampalli, R.Y., 2010, Influence of ultrasonication and Fenton oxidation pre-treatment on rheological characteristics of wastewater sludge. *Ultrason Sonochem* 17(1): 38-45.

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. in Environ. Sci. Technol.* 36(1).

Pouran, S.R., Abdul, A.R., and Daud, W., 2014, Review on the main advances in photo-Fenton oxidation system for recalcitrant wastewaters. *J Ind Eng Chem* 21: 53-69.

Priadi, C.R., Anita, Sari, P.N., dan Moersidik, S., 2014, Industri Keramik Oleh Limbah Tanah Liat, *Reaktor*, 15, 10–19

Putra, R.S., Novarita, D., and Cahyana, F., 2014, Remediation of lead (Pb) and copper (Cu) using water hyacinth [Eichornia crassipes (Mart.) Solms] with electro-assisted phytoremediation (EAPR), *AIP Conference Proceedings* 1744.



- Peulon, S., and Lincot., 1998, Aqueous Zinc Chloride Solutions Oxide and Zinc Hydroxychloride Films from Oxygenated, *J. Electrochem. Soc.* 1998, Volume 145, Issue 3, Pages 864-874
- Raskin, I., and Ensley, B.D., 2000, Phytoremediation of toxic metals: using plants to clean up the environment (John Wiley, New York,), pp. 3–11.
- Said, N.I., 2010, Metoda Penghilangan Logam Berat (As, Cd, Cr, Ag, Cu, Pb, Ni Dan Zn) Di Dalam Air Limbah Industri Pusat Teknologi Lingkungan, BPPT. Jln. MH. Thamrin No.8 Jakarta Pusat.
- Samanta, D., and Jena, P., 2012, Zn in the +III Oxidation State, *J. Am. Chem. Soc.*, 134, 8400–8403.
- Soares PA, Silva TF, Manenti, D.R., Souza, S.M., and Boaventura, R.A., 2014, How Insights into real cotton-textile dyeing wastewater treatment using solar advanced oxidation processes. *Environ Sci Pollut Res Int* 21(2): 932-945.
- Tanaka, K., Harada, K., and Murata, S., 1986, Photocatalytic deposition of metal ions onto TiO₂ powder, *Sol. Energy*, 36, 159–161.
- Terry, N., and Banuelos, G.S., 2000, Phytoremediation of contaminated soil and water (Lewis Publisher, Boca Rotan, 2000), p. 389.
- Uma,r M., Aziz H.A., and Yusoff, M.S., 2010, Trends in the use of Fenton, electro-Fenton and photo-Fenton for the treatment of landfill leachate. *Waste Mgmt* 30(11): 2113-2121.
- Veli, S., and Alyuz, B., 2007, Adosprtion of Copper and Zinc from Aqueous Solutions by Using Natural Clay, *Journal of Hazardous Materials* 149, pp. 226.
- Venkatadri, R., and Peters, R.W., 1993, Chemical oxidation technologies: ultraviolet light/hydrogen peroxide, Fenton's reagent, and titanium dioxide-assisted photocatalysis, *Haz. Waste & Haz. Mater.*, 993,107–149.
- Wilyanda, Yelmida, dan Chairul., 2015, Pengolahan Limbah Cair Logam Berat (Limbah B3) Secara Presipitasi Dan Koagulasi Di Upt Pengujian Dinas Pekerjaan Umum, Program Studi Teknik Kimia S1. Fakultas Teknik. Universitas Riau.
- Xiu, M., Wang, Q., and Hao, Y., 2007, Removal of organic carbon from wastepaper pulp effluent by lab-scale solar photo-Fenton process, *J Hazard Mater.* 2007 Sep 5;148(1-2):103-9.
- Zhang, A., and Li, Y., 2014. Removal of phenolic endocrine disrupting compounds from waste activated sludge using UV, H₂O₂ and UV/ H₂O₂ oxidation processes. Effects of reaction conditions and sludge matrix.



Science of The Total Environment. 493(9): 307–323.

Zhou, G., Chang, J., Cui, S., Wen, Z., And Chen, J., 2010, Real-Time, Selective Detection Of Pb²⁺ In Water Using A Reduced Graphene Oxide/Gold Nanoparticle Field-Effect Transistor Device, *ACS Appl. Mater. Interfaces*,