

**DAFTAR PUSTAKA**

- Abu, S., Hamidi, A., Aziz, A., Bashir, M., 2014. Application of Response Surface Methodology (RSM) for Optimization of Semi-Aerobic Landfill Leachate Treatment Using Ozone. *Appl Water Sci*2014.doi:<http://dx.doi.org/10.1007/s13201-014-0156-z>
- Alizadeh Fard, M., & Barkdoll, B. (2018). Effects of oxalate and persulfate addition to Electrofenton and Electrofenton-Fenton processes for oxidation of Ketoprofen: Determination of reactive species and mass balance analysis. *Electrochimica Acta*, 265, 209–220. <https://doi.org/10.1016/j.electacta.2018.01.153>
- Anotai, J., Su, C. C., Tsai, Y. C., & Lu, M. C. (2010a). Effect of hydrogen peroxide on aniline oxidation by electro-Fenton and fluidized-bed Fenton processes. *Journal of Hazardous Materials*, 183(1–3), 888–893. <https://doi.org/10.1016/j.jhazmat.2010.07.112>
- Anotai, J., Singhadech, S., C., S.C., Lu M, C., 2011. Comparison of O-toluidine degradation by fenton, electro-fenton and photoelectro-fenton processes. *J. Hazard. Mater.* 395–401.
- Anotai, J., Su, C., Tsai, Y., & Lu, M. (2010b). Effect of hydrogen peroxide on aniline oxidation by electro-Fenton and fluidized-bed Fenton processes. *Journal of Hazardous Materials*, 183(1–3), 888–893. <https://doi.org/10.1016/j.jhazmat.2010.07.112>
- Atmaca, E. (2009) 'Treatment of landfill leachate by using electro-Fenton method', *Journal of Hazardous Materials*, 163(1), pp. 109–114. doi: 10.1016/j.jhazmat.2008.06.067.
- Babuponnusami, A., & Muthukumar, K. (2014). A review on Fenton and improvements to the Fenton process for wastewater treatment. *Journal of Environmental Chemical Engineering*, 2(1), 557–572. <https://doi.org/10.1016/j.jece.2013.10.011>
- Chairunnisak, A., Arifin, B., Sofyan, H., Lubis, M. R., & Darmadi. (2018). Comparative study on the removal of COD from POME by electrocoagulation and electro-Fenton methods: Process optimization. *IOP Conference Series: Materials Science and Engineering*, 334(1). <https://doi.org/10.1088/1757-899X/334/1/012026>
- Collivignarelli, M. C., Pedrazzani, R., Sorlini, S., Abbà, A., & Bertanza, G. (2017). H₂O₂ based oxidation processes for the treatment of real high strength aqueous wastes. *Sustainability (Switzerland)*, 9(2), 1–14. <https://doi.org/10.3390/su9020244>
- Cortez, S., Pilar T., Rosario, O., Manuel, M. 2011. "Evaluation of Fenton and Ozone-Based advanced Oxidation Processes as Mature Landfill Leachate Pre-treatments". *Journal of Environmental Management* 92:749-755.
- Fardiaz, S. 1992. Polusi Air dan Udara. Kanisius, Yogyakarta
- Gan, P.P., Fong, S. & Li, Y., 2013, Efficient removal of Rhodamine B using a rice hull-based silica supported iron catalyst by Fenton - like process, *Chemical Engineering Journal*, 229, 351-363.<http://dx.doi.org/10.1016/j.cej.2013.06.020>
- Hardjono, H., Lusiani, C. E., Wibowo, A. A., & Iswara, M. A. I. (2020). Aplikasi Response Surface Methodology pada Optimasi Penambahan Blast Furnace Slag Terhadap Waktu Pengikatan dan Kuat Tekan Semen. *Jurnal Teknik Kimia Dan Lingkungan*, 4(1), 61. <https://doi.org/10.33795/jtkl.v4i1.150>
- Hakika DC, Sarto S, Mindaryani A, Hidayat M. Decreasing COD in sugarcane vinasse using the fenton reaction : The effect of processing parameters. *Catalysts*. 2019; 9 (11): 881.
- Hasibuan, H. (2009). Tinjauan Yuridis Terhadap Pengelolaan Limbah Bahan Berbahaya dan Beracun (B3) di Rumah Sakit Umum Pusat H. Adam Malik Medan. Universitas



Hayt, William Hart; Kemmerly, Jack; Durbin, Steven (2007). Engineering Circuit Analysis (dalam bahasa Inggris) (edisi ke-7th). McGraw-Hill Higher Education. hlm. 22-23. ISBN 978-0-07286611-7.

He, H., & Zhou, Z. (2017). Electro-fenton process for water and wastewater treatment. *Critical Reviews in Environmental Science and Technology*, 47(21), 2100–2131. <https://doi.org/10.1080/10643389.2017.1405673>

J A R, N. R., & Priyadi, A. R. (2019). Penurunan Kadar Cod Dan Warna Limbah Industri Tekstil Dengan Metode Elektro-Fenton. *Jurnal Envirotek*, 11(2), 14–23. <https://doi.org/10.33005/envirotek.v11i2.9>

Kang SF, Liao CH, Chen MC. Pre-oxidation and coagulation of textile wastewater by the Fenton process. *Chemosphere*. 2002; 46 (6): 923-928. DOI: 10.1016/s0045-6535(01)00159-x.

Keshani, S., Chuah, A.L., Nourouzi, M.M., Russly, A.R., and Jamilah, B. 2010. Optimization of concentration process on pomelo fruit juice using response surface methodology (RSM). *International Food Research Journal*

Kumari, K.S., Babu, I.S., and Rao, G.H. 2008. Process optimization for citric acid production from raw glycerol using response surface methodology. *Indian Journal of Biotechnology* pp. 496–501.

Kurt, A., & Yonar, T. (2017). *Treatability studies of hospital wastewaters with AOPs by Taguchi 's experimental design*. 19(X).

Kurt, U., Apaydin, O., & Gonullu, M. T. (2007). Reduction of COD in wastewater from an organized tannery industrial region by Electro-Fenton process. *Journal of Hazardous Materials*, 143(1–2), 33–40. <https://doi.org/10.1016/j.jhazmat.2006.08.065>

Kusuma, L., Darmadi, & Adisalamun. (2017). PENGOLAHAN LIMBAH CAIR RUMAH SAKIT SECARA SONOCHEMICAL The Treatment of Hospital Wastewater by Sonochemical Method. *Jurnal Litbang Industri*, 7(1). http://ejournal.kemenperin.go.id/jli/article/view/2691/pdf_32

Lapointe, M. (2004). Iron supplementation in the intensive care unit: When, how much, and by what route? *Critical Care*, 8(SUPPL. 2), 9–10. <https://doi.org/10.1186/cc2825>

Liu, F., Yi P., Wang, X., Gao, H &Zhang, H, 2018, Separation and Purification Technology Degradation of Acid Orange 7 by an ultrasond/ZnO-GAC/persulfate process, *Separation and Purification Technology*, 194, October 2017, 181-187. <https://doi.org/10.1016/j.seppur.2017.10.072>.

Liu, Z., Dang, J., Wang, Q., Yu, M., Jiang, L., Mei, L., Shao, Y., Tao, Y., 2013. Optimization of polysaccharides from lycium ruthenicum fruit using rsm and its anti-oxidant activity. *Int. J. Biol. Macromol.* 61, 127–134. doi:10.1016/j.ijbiomac.2013.06.042

Mahamuni, N.N., Adewuyi, Y.G., 2010. Advanced oxidation processes (aops) involving ultrasound for waste water treatment:A review with emphasis on cost estimation. *Ultrason. Sonochem.* 17, 990–1003. doi:10.1016/j.ultsonch.2009.09.005

Manohar, M., Joseph, J., Selvaraj, T., Sivakumar, D., 2013. Application of box Behnken design to optimize the parameters for turning inconel 718 using coated carbide tools. *Int. J. Sci. Eng. Res.* 4, 620–642.doi:10.4314/tjpr.v11i5.2

Montgomery, D.C. 2001. *Design and Analysis of Experimental*. John Wiley & Sons Inc, New York.

Montgomery, D.C., 2013, Design and Analysis of Experiments Eighth Edition 8th ed. John Wiley & Sons, United States.



- Murdani, Jakfar, Ekawati, D., Nadira, R., & Darmadi. (2018). Application of Response Surface Methodology (RSM) for wastewater of hospital by using electrocoagulation. *IOP Conference Series: Materials Science and Engineering*, 345(1). <https://doi.org/10.1088/1757-899X/345/1/012011>

Nurmiah, S., Syarief, R., Sukarno, S., Peranganinangin, R., & Nurmata, B. (2013). Aplikasi Response Surface Methodology Pada Optimalisasi Kondisi Proses Pengolahan Alkali Treated Cottonii (ATC). *Jurnal Pascapanen Dan Bioteknologi Kelautan Dan Perikanan*, 8(1), 9. <https://doi.org/10.15578/jpbkp.v8i1.49>

Pelczar, M. J., dan E. C. S. Chan. 2005. Dasar-Dasar Mikrobiologi, Edisi 2. Terjemahan dari Elements of Microbiology, oleh Ratna siri Hadioetomo.

Paramo-Vargas, J., Camargo, A. M. E., Gutierrez-Granados, S., Godinez, L. A., & Peralta-Hernandez, J. M. (2015). Applying electro-Fenton process as an alternative to a slaughterhouse effluent treatment. *Journal of Electroanalytical Chemistry*, 754, 80–86. <https://doi.org/10.1016/j.jelechem.2015.07.002>

Petri, B.G., Watts, R.J., Teel, A.L., Huling, S.G., Brown, R.A., 2011. In situ chemical oxidation for groundwater remediation. doi:10.1007/978-1-4419- 7826-4

Prabudi, M., Nurtama, B., Purnomo, E. H., Magister, S., Teknologi, P., Pascasarjana, S., & Pertanian, F. T. (2018). Aplikasi response surface methodology (RSM) dengan historical data pada optimasi proses produksi burger. *Jurnal Mutu Pangan*, 5(2), 109–115.

Purnama, B. (2014). Unit Aerasi , Sedimentasi , dan Biosand Filter Sebagai Pereduksi COD , TSS , Nitrat , dan Fosfat Air Limbah Artificial (Campuran Grey dan Black Water). *Tugas Akhir*, 1–5.

Rahmah, R., & Mulasari, S. A. (2016). Pengaruh Metode Koagulasi, Sedimentasi Dan Variasi Filtrasi Terhadap Penurunan Kadar Tss, Cod Dan Warna Pada Limbah Cair Batik. *CHEMICA: Jurnal Teknik Kimia*, 2(1), 7. <https://doi.org/10.26555/chemica.v2i1.4560>

Robert A. Millikan and E. S. Bishop (1917). Elements of Electricity (dalam bahasa Inggris). American Technical Society. hlm. 5

Said, N.I., 2006, Teknologi Pengolahan Air Limbah Rumah Sakit, 2, 1, 52-65.

Said, N. I. 1999. Teknologi Pengolahan Limbah cair Rumah Sakit dengan Sistem “biofilter anerob-aerob”. Seminar Teknologi Pengolahan Limbah II : Prosiding, Jakarta, 16-17 Februari 1999

Setiawan, O., & Cahyono, B. (2020). Pengaruh pH Umpam dan Rasio COD / H₂O₂ terhadap Penurunan COD pada Limbah Cair Rumah Sakit Melalui Metode Fenton Fe²⁺ HO⁻ Fe²⁺ O₂⁻ H. 14–15.

Sin, H.N., Yusof, S., Hamid, N.S.A., and Rahman, R.A., 2006, Optimization of Enzymatic Clarification of Sapodilla Juice using Response Surface Methodology. *J. Food Eng.* , 73, 313–319.

Umadevi, V. (2015). Fenton Process-A Pre Treatment Option for Hospital Waste water. *International Journal of Innovations in Engineering and Technology*, 5(2), 306–312.

Vergili, I., & Gencdal, S. (2015). Applicability of combined Fenton oxidation and nanofiltration to pharmaceutical wastewater. *Desalination and Water Treatment*, 56(13), 3501–3509. <https://doi.org/10.1080/19443994.2014.976772>

Wang, Z., Li, J., Tan, W., Wu, X., Lin, H., & Zhang, H. (2019). Removal of COD from landfill leachate by advanced Fenton process combined with electrolysis. *Separation and Purification Technology*, 208(June 2018), 3–11. <https://doi.org/10.1016/j.seppur.2018.06.048>

Wiratini, N. M. (2017). Pengaruh variasi jarak elektroda pada sel elektrokimia untuk mendegradasi lindi dengan teknik elektrooksidasi elektrokoagulasi. 291–295.



- Xu, P., Xu, H., & Zheng, D. (2019). The efficiency and mechanism in a novel electro-Fenton process assisted by anodic photocatalysis on advanced treatment of coal gasification wastewater. *Chemical Engineering Journal*, 361(December 2018), 968–974. <https://doi.org/10.1016/j.cej.2018.12.171>
- Yasri, N. G., & Gunasekaran, S. (2017). *Electrochemical Technologies for Environmental Remediation*. <https://doi.org/10.1007/978-3-319-55423-5>
- Yulvizar, C. (2011). Effectiveness of Wastewater Processing Of Fenol in RSUD dr. Zainal Abidin (RSUDZA) Banda Aceh. *Jurnal Ilmiah Pendidikan Biologi, Biologi Edukasi*, 3, Nomor 2, 9–15.
- Zhang, H., Wu, X. & Li, X., 2012, Oxidation and coagulation removal of COD from landfill leachate by Fered - Fenton process, *Chemical Engineering Journal*, 210, 188 - 194. <http://dx.doi.org/10/1016/j.cej.2012.08.094>.