

DAFTAR PUSTAKA

- Adib, M.R.M, W.M.S.W. Suraya, H. Rafidah, A.R.M. Amirza, M.H.M.N. Attahirah, M.S.N.Q. Hani, and M.S. Adnan, 2016, *Effect of phosphoric acid concentration on the characteristics of sugarcane bagasse activated carbon*, IOP Conf. Series: Mater. Sci. Eng.
- Amelia, S., 2017, *Pembuatan Katalis Oksida Besi dengan Pengemban Karbon Aktif dan Uji Aktivitas Katalitiknya untuk Reaksi Dekolorisasi Methylene Blue*, Tesis: Universitas Gadjah Mada.
- Asok, A.K., P.A. Fathima, and J. Shanavas, 2015, *Biodegradation of linear alkylbenzene sulfonate (LAS) by immobilized Pseudomonas sp*, ACES, 5(4), 465-475.
- ASTM, 2003, *Standard test method for sodium alkylbenzene sulfonate in synthetic detergents by ultraviolet absorption*, ASTM International, United States.
- Babuponnusami, A., and K. Muthukumar, 2014, *A review on Fenton and improvements to the Fenton process for wastewater treatment*. J. Environ., 2(1), 557–572.
- Badawy, M.I., R.A. Wahaab, and A.S. El-Kalliny, 2009, *Fenton-biological treatment processes for the removal of some pharmaceuticals from industrial wastewater*, J. Hazard. Mater., 167(1–3), 567–574.
- Cahyadi, A., 2013, *Pengaruh Luas Permukaan dan Lebar Pori Karbon Aktif pada Sistem Adsorbed Natural Gas (ANG)*, Tesis: Universitas Gadjah Mada.
- Do, D.D., 1998, *Adsorption analysis: Equilibria and Kinetics*, Imperial College, London.
- Eisenberg, G., 1943, *Colorimetric determination of hydrogen peroxide*, Ind. Eng. Chem. Anal. Ed., 15(5), 327-328.
- Erdogan, S., C.A. Basar, and Y. Önal, 2017, *Particle size effect of raw material on the pore structure of carbon support and its adsorption capability*, J. Particul. Sci. Technol., 35(3), 330-337.
- Eskani, I.N., Perdana, A., Eskak, E.D., dan Sumarto, H., 2017, *Getah Pohon Kudo (Lannea Coromandelica) sebagai Alternatif Perekat untuk Produk Kerajinan*, Dinamika Kerajinan dan Batik, 34(1), 19-24.
- Fessenden, R.J., dan J.S. Fessenden, 1986, *Kimia Organik*, Jilid 1, Edisi ke-3, Erlangga, Jakarta.

- Fletcher, A.J., 2008, *Porosity and Sorption Behaviour*, <http://personal.strath.ac.uk/ashleigh.fletcher/adsorption.htm> (diakses pada 18 Juli 2019).
- Fujii, S., C. Polprasert, S. Tanaka, N.P.H. Lien, and Y. Qiu, 2007, *New POPs in the water environment: distribution, bioaccumulation and treatment of perfluorinated compounds – a review paper*, J. Water Supply: Res. Technol. – AQUA, 56(5), 313–326.
- Gaceva, G.B., D. Dimeski, and N. Herakovic, 2011, *Effect of sonication applied during production of carbon fiber/epoxy resin composites evaluated by differential scanning calorimetry and thermo-gravimetric analysis*, Maced. J. Chem. Chem. Eng., 30(2), 189-195.
- Girgis, B.S., Y.M. Temerk, M.M. Gadelrab, and I.D. Abdullah, 2007, *X-ray diffraction patterns of activated carbons prepared under various conditions*, Carbon Sci., 8(2), 95-100.
- Guan, Z., X. Tanga, T. Nishimurac, Y. Huang, and B.J. Reidd, 2016, *Adsorption of linear alkylbenzene sulfonates on carboxyl modified multi-walled carbon nanotubes*, J. Hazard. Mater., 322(Pt A), 205–214.
- Haber, J., J.H. Block, and B. Delmon, 1995, *Manual of methods and procedures for catalyst characterization*. Pure & Appl. Chem., 67, 1257- 306.
- Keanekaragaman Hayati Daerah Istimewa Yogyakarta (KEHATI DIY), 2016, *Jaranan*, Agustus, <http://kehati.jogjaprovo.go.id/> (diakses 20 Agustus 2019).
- Khleifat, K.M., 2006, *Biodegradation of linear alkylbenzene sulfonate by a two-member facultative anaerobic bacterial consortium*, Enzyme Microb. Technol., 39(5), 1030–1035.
- Kumar, V., 2012, *Adsorption Equilibria and Regeneration*, Agustus, <https://www.slideshare.net/> (diakses 2 Agustus 2019).
- Kusnoputranto, H., 1997, *Air Limbah dan Ekstrata Manusia*, Direktorat Pembinaan Penelitian dan Pengabdian Masyarakat, Jakarta.
- Lin, S.L., C.M. Lin, and H.G. Leu, 1999, *Operating characteristics and kinetic studies of surfactant wastewater treatment by Fenton oxidation*, Water Res., 33(7), 1735-1741.
- Lutfi, F., 2013, *Dampak Limbah Detergen bagi Lingkungan*, Maret, <http://lutfi-fpk11.web.unair.ac.id> (diakses 10 Agustus 2018).

- Mirzaei, A., Z. Chen, F. Haghighat, and L. Yerushalmi, 2017, *Removal of pharmaceuticals from water by homo/heterogeneous Fenton-type processes – A review*, Chemosphere, 174, 665–688.
- Munoz, M., Z.M. de Pedro, J.A. Casas, and J.J. Rodriguez, 2012, *Triclosan breakdown by Fenton-like oxidation*. Chem. Eng. J., 198-199, 275-281.
- Myers, D., 2014, *Surfactant Science and Technology*. 3rd ed., John Wiley & Sons, Inc., New Jersey, Canada.
- Orta, M., J. Martín, S. Santiago Medina-Carrasco, J.L. Juan Luis Santos, I. Irene Aparicio, and E. Alonso, 2018, *Novel synthetic clays for the adsorption of surfactants from aqueous media*, J. Environ. Manage., 206, 357-363.
- Ou, Z., A. Yediler, Y. He, L. Jia, A. Kettrup, and T. Sun, 1996, *Adsorption of linear alkylbenzene sulfonate (LABS) on soils*, Chemosphere, 32(5), 827-839.
- Pakhira, B., M.Ghosh, A. Allam, and S. Sarkar, 2016, *Carbon nano onions cross blood brain barrier*, RSC Adv., 6, 29779-29782.
- Panizza, M., A. Barbucci, M. Delucchi, M.P. Carpanese, A. Giuliano, M. Cataldo-Hernández, and G. Cerisola, 2013, *Electro-Fenton degradation of anionic surfactants*, Sep. Purif. Technol., 118, 394–398.
- Patterson, D.A., I.S. Metcalfe, F. Xiong, and A.G. Livingston, 2001, *Wet air oxidation of linear alkylbenzene sulfonate 1. Effect of temperature and pressure*. Ing.Eng.Chem.Res, 40(23), 5507-5516.
- Pendleton, P., S.H. Wu, and A. Badalyan, 2002, *Activated carbon oxygen content influence on water and surfactant adsorption*, J. Colloid Interf. Sci., 246(2), 235-240.
- Permenkes RI No. 32, 2017, Standar Baku Mutu Kesehatan Lingkungan dan Persyaratan Kesehatan Air untuk Keperluan Higiene Sanitasi, Kolam Renang, Solus per Aqua, dan Pemandian Umum.
- Rodríguez^a, B. O., A. Zafra-Gómez, M.S. Reis, B.P.M. Duarte, C. Verge, J.A. de Ferrer, M. Pérez-Pascual, and J.L. Vilchez, 2015, *Wide-range and accurate modeling of linear alkylbenzene sulfonate (LAS) adsorption/desorption on agricultural soil*, Chemosphere, 138, 148–155.
- Rodríguez^b, L.P., I. Oller, N. Klamerth, A. Agüera, E.M. Rodríguez, and S. Malato, 2013, *Application of solar AOPs and ozonation for elimination of micropollutants in municipal wastewater treatment plant effluents*, Water Res., 47(4), 1521–1528.

- SDA, 1994, *Soaps and Detergent*, 2nd ed., The Soap and Detergent Association, Washington DC.
- Sum, O.S.N., J. Feng, X. Hu, and P.L. Yue, 2005, *Photo-assisted fenton mineralization of an azo-dye acid black 1 using a modified laponite clay-based Fe nanocomposite as a heterogeneous catalyst*, Top. Catal., 33(1–4), 233–242.
- Suzuki, M., 1990, *Adsorption Engineering*, Kodansha LTD., Tokyo.
- Sweney, W.A., and R.G. Anderson, 1989, *Biodegradability of Alkylbenzene Sulfonates*, JAOCS, 66(12), 1844-1849.
- Tipsawat, P., U. Wongpratrat, S. Phumying, N. Chanlek, K. Chokprasombat, S. Maensiri, 2018, *Magnetite (Fe₃O₄) nanoparticles: synthesis, characterization and electrochemical properties*, Appl. Surf. Sci., 446, 287-292.
- Vergili, I., and S. Gencdal, 2015, *Applicability of combined Fenton oxidation and nanofiltration to pharmaceutical wastewater*, Desalin. Water Treat., 56(13), 3501–3509.
- Wang, N., T. Zheng, G. Zhang, and P. Wang, 2016, *A review on Fenton-like processes for organic wastewater treatment*, J. Environ. Chem. Eng., 4(1), 762–787.
- Wu, S.H., and P. Pendleton, 2001, *Adsorption of anionic surfactant by activated carbon: effect of surface chemistry, ionic strength, and hydrophobicity*, J. Colloid Interf. Sci., 243(2), 306-315.
- Yang, W.B., A. Li, J. Fan, L. Licheng Yang, and Q. Zhang, 2006, *Adsorption of branched alkylbenzene sulfonate onto styrene and acrylic ester resins*, Chemosphere, 64(6), 984–990.
- Yangxin, Y., Z. Jin, and A.E. Bayly, 2008, *Development of surfactants and builders in detergent formulations*. Chin. J. Chem. Eng. 14(4), 517–527.
- Yeganeh, M.M., T. Kaghazchi, and M. Soleimani, 2006, *Effect of raw materials on properties of activated carbons*, Chem. Eng. Technol., 29(10), 1247-1251.
- Yu, Q., R. Zhang, S. Deng, J. Huang, and G. Yu, 2009, *Sorption of perfluorooctane sulfonate and perfluorooctanoate on activated carbons and resin: Kinetic and isotherm study*, Water Res., 43, 1150-1158.
- Zhang^a, Z., Y. Deng, M. Shen, W. Han, Z. Chen, D. Danping Xu, and X. Ji, 2009, *Investigation on rapid degradation of sodium dodecyl benzene sulfonate (SDBS) under microwave irradiation in the presence of modified activated carbon powder with ferrous sulfate*, Desalination, 249(3), 1022–1029.

Zhang^b, P., 2016, *Adsorption and Desorption Isotherms*, Agustus,
<http://www.kereseaingroup.com/> (diakses Maret 2019).