

DAFTAR PUSTAKA

- Abegunde, S. M., Idowu, K. S., Adejuwon, O. M., & Adeyemi-Adejolu, T. (2020). A review on the influence of chemical modification on the performance of adsorbents. *Resources, Environment and Sustainability*, 1, 100001. <https://doi.org/10.1016/j.resenv.2020.100001>
- Al-Amrani, W. A., Hanafiah, M. A. K. M., & Mohammed, A.-H. A. (2022). A comprehensive review of anionic azo dyes adsorption on surface-functionalised silicas. *Environmental Science and Pollution Research*, 29(51), 76565–76610. <https://doi.org/10.1007/s11356-022-23062-0>
- Alaqarbeh, M. (2021). Adsorption Phenomena: Definition, Mechanisms, and Adsorption Types. *RHAZES: Green and Applied Chemistry*, 13, 43–51.
- AOAC. (2005). AOAC Official Method 920.158. In *Official Methods of Analysis* (18th ed.). Association of Official Analytical Chemist Inc.
- AOCS. (2009a). AOCS Official Method Ca 5a-40. In *Official Methods and Recommended Practices of the AOCS* (6th ed.). American Oil Chemist's Society Champaign.
- AOCS. (2009b). AOCS Official Method Cd 8b-90. In *Official Methods and Recommended Practices of the AOCS* (6th ed.). American Oil Chemist's Society Champaign.
- AOCS. (2017a). AOCS Cd 12b-92 method. In *Official Methods and Recommended Practices of the AOCS* (7th ed.). American Oil Chemist's Society Champaign.
- AOCS. (2017b). AOCS Cd 18-90 method. In *Official Methods and Recommended Practices of the AOCS* (7th ed.). American Oil Chemist's Society Champaign.
- Bedmohata, M. A., Chaudhari, A. R., Singh, S. P., & Choudhary, M. D. (2015). Adsorption Capacity of Activated Carbon Prepared by Chemical Activation of Lignin for the Removal of Methylene Blue Dye. *International Journal of Advanced Research in Chemical Science*, 2(8), 1–13.
- Benadé, A. J. S. (2013). Red Palm Oil Carotenoids. In *Bioactive Food as Dietary Interventions for Cardiovascular Disease* (pp. 333–343). Elsevier. <https://doi.org/10.1016/B978-0-12-396485-4.00019-0>
- Bourahla, K., Lemmouchi, Y., Jama, C., Rolando, C., & Mazzah, A. (2022). Grafting of amine functions on cellulose acetate fibers by branched polyethylenimine coating. *Reactive and Functional Polymers*, 170, 105107. <https://doi.org/10.1016/j.reactfunctpolym.2021.105107>
- Bravo, I., Figueroa, F., Swasy, M. I., Attia, M. F., Ateia, M., Encalada, D., Vizuite, K., Galeas, S., Guerrero, V. H., Debut, A., Whitehead, D. C., & Alexis, F. (2020). Cellulose particles capture aldehyde VOC pollutants. *RSC Advances*, 10(13), 7967–7975. <https://doi.org/10.1039/D0RA00414F>
- Cassiday, L. (2017). Red palm oil. *INFORM International News on Fats, Oils, and Related Materials*, 28(2), 6–10. <https://doi.org/10.21748/inform.02.2017.06>

- Chew, S. C., & Nyam, K. L. (2020). Refining of edible oils. In *Lipids and Edible Oils* (pp. 213–241). Elsevier. <https://doi.org/10.1016/B978-0-12-817105-9.00006-9>
- Desai, S. N., Farris, F. F., & Ray, S. D. (2014). Lipid Peroxidation. In *Encyclopedia of Toxicology* (pp. 89–93). Elsevier. <https://doi.org/10.1016/B978-0-12-386454-3.00327-4>
- Dijkstra, A. J. (2016). Vegetable Oils: Composition and Analysis. In *Encyclopedia of Food and Health* (pp. 357–364). Elsevier. <https://doi.org/10.1016/B978-0-12-384947-2.00708-X>
- FAO. (2023). *STANDARD FOR NAMED VEGETABLE OILS (CXS 210-1999)*.
- Farr, W. E., Ghazani, S. M., & Marangoni, A. G. (2020). Hydrogenation: Processing Technologies. In *Bailey's Industrial Oil and Fat Products* (pp. 1–17). Wiley. <https://doi.org/10.1002/047167849X.bio064.pub2>
- Gao, Y., Focsan, A. L., & Kispert, L. D. (2020). Antioxidant Activity in Supramolecular Carotenoid Complexes Favored by Nonpolar Environment and Disfavored by Hydrogen Bonding. *Antioxidants*, 9(7), 625. <https://doi.org/10.3390/antiox9070625>
- Ghendov-Mosanu, A., Popovici, V., Constantinescu (Pop), C. G., Deseatnicova, O., Siminiuc, R., Subotin, I., Druta, R., Pintea, A., Socaciu, C., & Sturza, R. (2023). Stabilization of Sunflower Oil with Biologically Active Compounds from Berries. *Molecules*, 28(8), 3596. <https://doi.org/10.3390/molecules28083596>
- He, D., & Liu, L. (2019). Analytical Aspects of Rice Bran Oil. In *Rice Bran and Rice Bran Oil* (pp. 169–181). Elsevier. <https://doi.org/10.1016/B978-0-12-812828-2.00007-X>
- Hokkanen, S., Bhatnagar, A., & Sillanpää, M. (2016). A review on modification methods to cellulose-based adsorbents to improve adsorption capacity. *Water Research*, 91, 156–173. <https://doi.org/10.1016/j.watres.2016.01.008>
- Hu, H., & Xu, K. (2020). Physicochemical technologies for HRP and risk control. In *High-Risk Pollutants in Wastewater* (pp. 169–207). Elsevier. <https://doi.org/10.1016/B978-0-12-816448-8.00008-3>
- Huang, M., Luo, Z., Zhu, T., Chen, J., Zhang, J. Z., & Xia, F. (2017). A theoretical study of the substituent effect on reactions of amines, carbon dioxide and ethylene oxide catalyzed by binary ionic liquids. *RSC Advances*, 7(81), 51521–51527. <https://doi.org/10.1039/C7RA09485J>
- ISCO3. (2016). *ISCO3/LAB/00/04 Peroxide Values in Ozonized Oils*. www.isco3.org
- Ismail, A., Bannenberg, G., Rice, H. B., Schutt, E., & MacKay, D. (2016). Oxidation in EPA- and DHA-rich oils: an overview. *Lipid Technology*, 28(3–4), 55–59. <https://doi.org/10.1002/lite.201600013>
- Janssen, M., Xiros, C., & Tillman, A.-M. (2016). Life cycle impacts of ethanol production from spruce wood chips under high-gravity conditions. *Biotechnology for Biofuels*, 9(1), 53. <https://doi.org/10.1186/s13068-016-0468-3>
- Kiokias, S., Gordon, M. H., & Oreopoulou, V. (2017). Effects of composition and processing variables on the oxidative stability of protein-based and oil-in-

- water food emulsions. *Critical Reviews in Food Science and Nutrition*, 57(3), 549–558. <https://doi.org/10.1080/10408398.2014.893503>
- Lee, J. J., Sievers, C., & Jones, C. W. (2019). Silica-Supported Hindered Aminopolymers for CO₂ Capture. *Industrial & Engineering Chemistry Research*, 58(50), 22551–22560. <https://doi.org/10.1021/acs.iecr.9b02220>
- Linsha Mali, A., Priya, S. S., & Rekha, M. R. (2021). Hydrophobic and hydrophilic modifications of polyethylenimine towards gene delivery applications. *Journal of Applied Polymer Science*, 138(45), 51323. <https://doi.org/10.1002/app.51323>
- Loganathan, R., Subramaniam, K. M., Radhakrishnan, A. K., Choo, Y.-M., & Teng, K.-T. (2017). Health-promoting effects of red palm oil: evidence from animal and human studies. *Nutrition Reviews*, 75(2), 98–113. <https://doi.org/10.1093/nutrit/nuw054>
- Mahmood Aljamali, N., & Obaid Alfatlawi, I. (2021). *Physical and Chemical Adsorption and its Applications*. <https://doi.org/10.37628/IJTCK>
- Medvedev, A. G., Churakov, A. V., Prikhodchenko, P. V., Lev, O., & Vener, M. V. (2020). Crystalline Peroxosolvates: Nature of the Coformer, Hydrogen-Bonded Networks and Clusters, Intermolecular Interactions. *Molecules*, 26(1), 26. <https://doi.org/10.3390/molecules26010026>
- Meng, F., Kwon, S., Wang, J., & Yeo, Y. (2020). Immunoactive drug carriers in cancer therapy. In *Biomaterials for Cancer Therapeutics* (pp. 53–94). Elsevier. <https://doi.org/10.1016/B978-0-08-102983-1.00003-X>
- Miskah, S., Aprianti, T., Agustien, M., Utama, Y., & Said, M. (2019). Purification of Used Cooking Oil Using Activated Carbon Adsorbent from Durian Peel. *IOP Conference Series: Earth and Environmental Science*, 396(1), 012003. <https://doi.org/10.1088/1755-1315/396/1/012003>
- Nayak, P. K., Dash, U., Rayaguru, K., & Krishnan, K. R. (2016). Physio-Chemical Changes During Repeated Frying of Cooked Oil: A Review. *Journal of Food Biochemistry*, 40(3), 371–390. <https://doi.org/10.1111/jfbc.12215>
- Nomura, A., & Jones, C. W. (2013). Amine-Functionalized Porous Silicas as Adsorbents for Aldehyde Abatement. *ACS Applied Materials & Interfaces*, 5(12), 5569–5577. <https://doi.org/10.1021/am400810s>
- Pashkovskaya, A. A., Vazdar, M., Zimmermann, L., Jovanovic, O., Pohl, P., & Pohl, E. E. (2018). Mechanism of Long-Chain Free Fatty Acid Protonation at the Membrane-Water Interface. *Biophysical Journal*, 114(9), 2142–2151. <https://doi.org/10.1016/j.bpj.2018.04.011>
- Riyadi, A. H., Muchtadi, T. R., Andarwulan, N., & Haryati, T. (2016). Pilot Plant Study of Red Palm Oil Deodorization Using Moderate Temperature. *Agriculture and Agricultural Science Procedia*, 9, 209–216. <https://doi.org/10.1016/j.aaspro.2016.02.129>
- Rodriguez-Reinoso, F., & Silvestre-Albero, J. (2016). Activated Carbon and Adsorption. In *Reference Module in Materials Science and Materials Engineering*. Elsevier. <https://doi.org/10.1016/B978-0-12-803581-8.02289-X>
- Sadashiv Bubnale, & M Shivashankar. (2017). History, Method of Production, Structure and Applications of Activated Carbon. *International Journal of*

- Engineering Research And*, V6(06).
<https://doi.org/10.17577/IJERTV6IS060277>
- Shen, X., Du, H., Mullins, R. H., & Kommalapati, R. R. (2017). Polyethylenimine Applications in Carbon Dioxide Capture and Separation: From Theoretical Study to Experimental Work. *Energy Technology*, 5(6), 822–833. <https://doi.org/10.1002/ente.201600694>
- Shin, G.-J., Rhee, K., & Park, S.-J. (2016). Improvement of CO₂ capture by graphite oxide in presence of polyethylenimine. *International Journal of Hydrogen Energy*, 41(32), 14351–14359. <https://doi.org/10.1016/j.ijhydene.2016.05.162>
- Stillwell, W. (2016). Membrane Biogenesis. In *An Introduction to Biological Membranes* (pp. 315–329). Elsevier. <https://doi.org/10.1016/B978-0-444-63772-7.00014-2>
- Suhas, Gupta, V. K., Carrott, P. J. M., Singh, R., Chaudhary, M., & Kushwaha, S. (2016). Cellulose: A review as natural, modified and activated carbon adsorbent. *Bioresource Technology*, 216, 1066–1076. <https://doi.org/10.1016/j.biortech.2016.05.106>
- Tan, C. H., Lee, C. J., Tan, S. N., Poon, D. T. S., Chong, C. Y. E., & Pui, L. P. (2021). Red Palm Oil: A Review on Processing, Health Benefits and Its Application in Food. *Journal of Oleo Science*, 70(9), ess21108. <https://doi.org/10.5650/jos.ess21108>
- Vuorte, M., Vierros, S., Kuitunen, S., & Sammalkorpi, M. (2020). Adsorption of impurities in vegetable oil: A molecular modelling study. *Journal of Colloid and Interface Science*, 571, 55–65. <https://doi.org/10.1016/j.jcis.2020.03.012>
- Wu, M., El-Basyouny, K., & Kwon, T. J. (2021). Lessons learned from the large-scale application of Driver Feedback Signs in an urban city. *Journal of Transportation Safety & Security*, 13(12), 1283–1301. <https://doi.org/10.1080/19439962.2020.1726546>
- Xie, X., Gao, H., Luo, X., Su, T., Zhang, Y., & Qin, Z. (2019). Polyethyleneimine modified activated carbon for adsorption of Cd(II) in aqueous solution. *Journal of Environmental Chemical Engineering*, 7(3), 103183. <https://doi.org/10.1016/j.jece.2019.103183>
- Yuwono, R. A. H. (2013). *PEMISAHAN BETAKAROTEN DARI OLEIN MINYAK SAWIT MENGGUNAKAN FRAKSINASI BERTAHAP PADA SUHU RENDAH DENGAN PENAMBAHAN INTI KRISTAL STEARIN*. Universitas Gadjah Mada.