

DAFTAR PUSTAKA

1. Khan, I. W., Naeem, A., Farooq, M., Mahmood, T., Ahmad, B., Hamayun, M., Ahmad, Z., & Saeed, T. (2020). Catalytic conversion of spent frying oil into biodiesel over raw and 12-tungsto-phosphoric acid modified clay. *Renewable Energy*, 155, 181–188. <https://doi.org/10.1016/j.renene.2020.03.123>
2. Altalhi, A. A., Mohamed, E. A., Morsy, S. M., Abou Kana, M. T. H., & Negm, N. A. (2021). Catalytic manufacture and characteristic valuation of biodiesel-biojet achieved from *Jatropha curcas* and waste cooking oils over chemically modified montmorillonite clay. *Journal of Molecular Liquids*, 340, 117175. <https://doi.org/10.1016/j.molliq.2021.117175>
3. Munir, M., Ahmad, M., Saeed, M., Waseem, A., Rehan, M., Nizami, A., Zafar, M., Arshad, M., & Sultana, S. (2019). Sustainable production of bioenergy from novel non-edible seed oil (*Prunus cerasoides*) using bimetallic impregnated montmorillonite clay catalyst. *Renewable and Sustainable Energy Reviews*, 109(March), 321–332. <https://doi.org/10.1016/j.rser.2019.04.029>
4. Tamjidi, S., Esmaeili, H., & Moghadas, B. K. (2021). Performance of functionalized magnetic nanocatalysts and feedstocks on biodiesel production: A review study. *Journal of Cleaner Production*, 305, 127200. <https://doi.org/10.1016/j.jclepro.2021.127200>
5. Munir, M., Ahmad, M., Rehan, M., Saeed, M., Shiung, S., Nizami, A. S., Waseem, A., Sultana, S., & Zafar, M. (2021). Production of high quality biodiesel from novel non-edible *Raphanus raphanistrum* L . seed oil using copper modified montmorillonite clay catalyst. *Environmental Research*, 193(October 2020), 110398. <https://doi.org/10.1016/j.envres.2020.110398>
6. Ulakpa, W. C., Ulakpa, R. O. E., Eyankware, E. O., & Egunyenga, M. C. (2022). Statistical optimization of biodiesel synthesis from waste cooking oil using NaOH/ bentonite impregnated catalyst. *Cleaner Waste Systems*, 3(July), 100049. <https://doi.org/10.1016/j.clwas.2022.100049>
7. Olutoye, M. A., Wong, S. W., Chin, L. H., Amani, H., Asif, M., & Hameed, B. H. (2016). Synthesis of fatty acid methyl esters via the transesterification of waste cooking oil by methanol with a barium-modified montmorillonite K10 catalyst. *Renewable Energy*, 86, 392–398. <https://doi.org/10.1016/j.renene.2015.08.016>
8. Endalew, A. K., Kiros, Y., & Zanzi, R. (2011). Heterogeneous catalysis for biodiesel production from *Jatropha curcas* oil (JCO). *Energy*, 36(5), 2693–2700. <https://doi.org/10.1016/j.energy.2011.02.010>
9. Đặng, T. H., Nguyễn, X. H., Chou, C. L., & Chen, B. H. (2021). Preparation of cancrinite-type zeolite from diatomaceous earth as transesterification catalysts for biodiesel production. *Renewable Energy*, 174, 347–358. <https://doi.org/10.1016/j.renene.2021.04.068>
10. Gmbh, S. B. H. (2004). *Basic Principles in Applied Catalyst*. Springer
11. Feng, S., & Li, G. (2017). *Hydrothermal and Solvothermal Syntheses*. <https://doi.org/10.1016/B978-0-444-63591-4.00004-5>
12. Permana, E., Christine, I., Murti, S., & Yanti, F. M. (2020). Preparasi dan karakterisasi katalis cu / zno dengan support karbon aktif menggunakan aktivator H₃PO₄ dan ZnCl₂. *Jurnal Teknologi*, 13(1), 6–15
13. Kanda, L. R. S., Corazza, M. L., Zatta, L., & Wypych, F. (2017). Kinetics evaluation of the ethyl esterification of long chain fatty acids using commercial montmorillonite K10 as catalyst. *Fuel*, 193, 265–274. <https://doi.org/10.1016/j.fuel.2016.12.055>

14. Negm, N. A., Sayed, G. H., Yehia, F. Z., Habib, O. I., & Mohamed, E. A. (2017). Biodiesel production from one-step heterogeneous catalyzed process of Castor oil and Jatropha oil using novel sulphonated phenyl silane montmorillonite catalyst. *Journal of Molecular Liquids*, 234, 157–163. <https://doi.org/10.1016/j.molliq.2017.03.043>
15. Aid, A., Andrei, R. D., Amokrane, S., Cammarano, C., Nibou, D., & Hulea, V. (2017). Ni-exchanged cationic clays as novel heterogeneous catalysts for selective ethylene oligomerization. *Applied Clay Science*, 146(December 2016), 432–438. <https://doi.org/10.1016/j.clay.2017.06.034>
16. Syukri. (2022). effect of thermal treatment and nickel salt modification on the catalytic performance of the illite kaolinite clay from bukittinggi of west sumatra in palm oil transesterification. DOI:10.18698/1812-3368-2022-2-125-136
17. Nawangratri, A. Zietyn, Khairuddin, & Purnawan, C. (n.d.). *Pengaruh Berbagai Tipe Tanah Lempung Pada Karakteristik Komposit Kanji*. 1(1), 27–37.
18. Utami, D. N. (2018). Kajian Jenis Mineralogi Lempung Dan Implikasinya Dengan Gerakan Tanah. *Jurnal Alami: Jurnal Teknologi Reduksi Risiko Bencana*, 2(2), 89. <https://doi.org/10.29122/alami.v2i2.3095>
19. Bergaya, F., Theng, B. K. G., & Lagaly, G. (2006). Handbook of Clay Science. In *Developments in Clay Science* (Vol.1, Issue 2). [https://doi.org/10.1016/S1572-4352\(05\)01039-1](https://doi.org/10.1016/S1572-4352(05)01039-1)
20. Yaghmaeiyan, N., Mirzaei, M., & Delghavi, R. (2022). Montmorillonite clay: Introduction and evaluation of its applications in different organic syntheses as catalyst: A review. *Results in Chemistry*, 4(September), 100549. <https://doi.org/10.1016/j.rechem.2022.100549>
21. Harun, F. W., Jihadi, N. I. M., Ramli, S., Hassan, N. R. A., & Zubir, N. A. M. (2018). Esterification of oleic acid with alcohols over Cu-MMT K10 and Fe-MMT K10 as acid catalysts. *AIP Conference Proceedings*, 1972(June). <https://doi.org/10.1063/1.5041246>
22. Housecroft, C. E., & Sharpe, A. G. (2012). *Inorganic chemistry*.
23. Whitten. (2004). The Foundations of Chemistry. *Foundations of Chemistry*, 1–1000.
24. Gupta, V., & Pal Singh, K. (2023). The impact of heterogeneous catalyst on biodiesel production; a review. *Materials Today: Proceedings*, 78, 364–371. <https://doi.org/10.1016/j.matpr.2022.10.175>
25. Chua, S. Y., Periasamy, L. A., Goh, C. M. H., Tan, Y. H., Mubarak, N. M., Kansedo, J., Khalid, M., Walvekar, R., & Abdullah, E. C. (2020). Biodiesel synthesis using natural solid catalyst derived from biomass waste — A review. *Journal of Industrial and Engineering Chemistry*, 81, 41–60. <https://doi.org/10.1016/j.jiec.2019.09.022>
26. Jiménez-Cruz, F., Marín-Rosas, C., Castañeda-Lopez, L. C., & García-Gutiérrez, J. L. (2021). Promising extruded catalyst for palm oil transesterification from LiAlH₄ hydrolysates. *Arabian Journal of Chemistry*, 14(5). <https://doi.org/10.1016/j.arabjc.2021.103141>
27. Song, X., Chen, C., Zhou, H., Shang, J., & Ren, T. (2023). Effect of high-temperature treatment on water vapour sorption of montmorillonite. *Geoderma*, 436(February), 116563. <https://doi.org/10.1016/j.geoderma.2023.116563>
28. Jiang, B., Zhang, C., Wang, K., Dou, B., Song, Y., Chen, H., & Xu, Y. (2016). Highly dispersed Ni/montmorillonite catalyst for glycerol steam reforming: Effect of Ni loading and calcination temperature. *Applied Thermal Engineering*, 109, 99–108. <https://doi.org/10.1016/j.applthermaleng.2016.08.041>
29. Amalia, D., Aziz, M., Cahyono, S. S., Rodliyah, I., & Technology, C. (2009).

- Alteration Of Montmorillonite Clay To Solid Acid Catalyst By Heating And Acid.* July, 105–110.
30. Craft, B. D., Nagy, K., Seefelder, W., Dubois, M., & Destailats, F. (2012). Glycidyl esters in refined palm (*Elaeis guineensis*) oil and related fractions . Part II : Practical recommendations for effective mitigation. *Food Chemistry*, 132(1), 73–79. <https://doi.org/10.1016/j.foodchem.2011.10.034>
 31. Indonesia, S. N., & Nasional, B. S. (2015). *Sni 7182:2015*.
 32. Irawati. (2018). Pembuatan Dan Pengujian Viskositas Dan Densitas Biodiesel Dari Beberapa Jenis Minyak Jelantah. *Jurnal Fisika Dan Terapannya*, 5(1), 82–89. <https://journal.uin-alauddin.ac.id/index.php/jft/article/view/15972>

