

## DAFTAR PUSTAKA

- Aisyah, A.N., Ni'maturrohmah, D., Putra, R., Ichsan, S., Kadja, G.T.M, & Lestari, W.W. (2023). Nickel Supported on MIL-96 (Al) as an Efficient Catalyst for Biodiesel and Green Diesel Production from Crude Palm Oil. *International Journal of Technology*, 14(2), 276-289.
- Anwar, M., Rasul, M.G., & Ashwath, N. (2017). Optimization of biodiesel production process from papaya (*Carica papaya*) seed oil. *IEEE 7<sup>th</sup> International Conference on Power and Energy Systems (ICPES)*. Toronto, Canada, 131-134.  
<https://doi.org/10.1109/ICPESYS.2017.8215935>.
- Arlene, A. 2013. Ekstraksi kemiri dengan metode soxhlet dan karakterisasi minyak kemiri, *Jurnal Teknik Kimia USU*, 2(2), 6–10.
- Aslam, M.N., Nelson, M.N., Kailis S.G., Bayliss, K.L., Speijers J., & Cowling, W.A. (2009) Canola oil increases in polyunsaturated fatty acids and decreases in oleic acid in drought-stressed Mediterranean type environments. *Plant Breed* 128:348–355. <https://doi.org/10.1111/j.1439-0523.2008.01577.x>.
- Atabani, A.E., Silitonga, A.S., Ong, H.C., Mahlia, T.M.I., Masjuki, H.H., Badruddin, I.A., & Fayaz, H. (2013). Non-edible vegetable oils: A critical evaluation of oil extraction, fatty acid compositions, biodiesel production, characteristics, engine performance and emissions production. *Renewable and Sustainable Energy Reviews*, 18 (2), 211-245.  
<https://doi.org/10.1016/j.rser.2012.10.013>.
- Babu, M.V., Murthy, K.M., & Rao, G.A.P. (2020). Production process optimization of *Sterculia foetida* Methyl Esters (Biodiesel) using Response Surface Methodology. *International Journal of Ambient Energy*. ISSN : 0143-0750. <https://doi.org/10.1080/01430750.2020.1723692>.
- Bahadi, S., Riyanta, A. & Purgiyanti. (2021). Pengaruh Penggunaan Media Sangrai Pasir Hitam dan Pasir Putih terhadap Rendemen dan Bilangan Asam Minyak Kemiri dari Daerah NTT. *Jurnal Ilmiah Manuntung*, 7 (1), 6-11.
- Bajpai, D., & Tyagi, V.K. (2006). Biodiesel: source, production, composition, properties and its benefits. *Journal of OLEo science*, 55(10), 487-502.
- Barbosa, M.O., Almeida-Cortez, J.S., Silva, S.I., & Oliveira, A.F.M. (2014) Seed oil content and fatty acid composition from diferent populations of *Calotropis procera* (Aiton) W. T. Aiton (Apocynaceae). *J Am Oil Chem Soc*. 91, 1433–1441. <https://doi.org/10.1007/s11746-014-2475-5>.
- Barbosa, da S. R., da Silva-Júnior E.V., Trigueiros L.M.B.M., dos Santos R.H.G., Aquino J.S., Campos A.R.N., & Oliveira A.F.M (2021) “Macaíba”, an emerging oil crop: nutritional evaluation of the pulp and kernel fruits from semi-arid and coastal zone of northeast Brazil. *J Agron Crop Sci*. 207:139–147. <https://doi.org/10.1111/jac.12435>.
- Bart, J., Palmeri, N., & Stefano, C. (2010). Emerging New Energy Crops for Biodiesel Production. *Biodiesel Science and Technology*, 226-284.

- Bernacchia, R., Preti, R., & Vinci, G., (2014). Chemical composition and health benefits of flaxseed. *Austin. Journal Nutrition Food Science*. 2, 1045.
- Bindhu, C.H., Reddy, J.R.C., Rao, B.V.S.K., Ravinder, T., Chakrabarti P.P., & Karuna, M.S.L. (2011). Preparation and evaluation of biodiesel from *Sterculia foetida* seed oil. *Journal Am Oil Chemichal Society*, 89, 1-6.
- Bouaid, A., El-boulifi, N., Hahati, K., Martinez, M., & Aracil, J. (2014). Biodiesel production from biobutanol. Improvement of cold flow properties. *Chemical Engineering Journal*, 238, 234–241. <https://doi.org/10.1016/j.cej.2013.10.022>.
- Bose, P. (2009). Empirical Approach for Predicting the Cetane Number of Biodiesel. *International Journal of Automotive Technology*, 10 (4), 421-429.
- Bose, R., Bhattacharya E., Pramanik, A., Hughes, T.A., & Biswas, S.M. (2021). Potential oil resources from underutilized seeds of *Sterculia foetida*, L. - Quality assessment and chemical profiling with other edible vegetable oils based on fatty acid composition, oxidative stability, antioxidant activity and cytotoxicity. *Biocatalysis and Agricultural Biotechnology*, 33, 1878 - 8181. <https://doi.org/10.1016/j.bcab.2021.102002>.
- Bureau of Plant Industry (BPI). (2010). *Sterculia foetida*. Linn.
- BPPT. (2020). Pedoman Penanganan dan Penyimpanan Biodiesel dan Campurannya (B30). Jakarta : Direktorat Bioenergi, Direktorat Jendral Energi Baru, Terbarukan dan Konversi Energi, Kementrian Energi dan Sumber Daya Mineral.
- Canakci, M., & Sanli, H. (2008). Biodiesel production from various feedstocks and their effects on the fuel properties. *Journal of Industrial Microbiology and Biotechnology*, 35 (5), 431-441. <https://doi.org/10.1007/s10295-0080337-6>.
- Canvin, D.T. (1965). The effect of temperature on the oil content and fatty acid composition of the oils from several oil seed crops. *Can J Bot*, 43,63–69. <https://doi.org/10.1139/b65-008>.
- Carrero, A., & P´erez, A. (2012). Advances in biodiesel quality control, characterisation and standards development (Ch.5). In: Luque, Rafael, Melero, Juan A. (Eds.), *Advances in Biodiesel Production*. Woodhead Publishing, Cambridge, 91–130.
- Chuan-Jie, Z., Gao, Y., Jiang, C., Liu, L., Wang, Y., Kim, D.S., Yu, J., Yu, L., Li, F., Fan, Y., Chen, M., Zhang, Y., Min, X., Zhang, H., & Yan, X. (2021). Camelina seed yield and quality in different growing environments in northern China. *Industrial Crops and Products*, 172. <https://doi.org/10.1016/j.indcrop.2021.114071>.
- Couvertier, S.M., Zhou, Y., & Weerapana, E. (2014). Chemical-proteomic strategies to investigate cysteine posttranslational modification. *Biochimica et Biophysica Acta (BBA). Proteins and Proteomics*. 1844 (12) , 2315-2330. <https://doi.org/10.1016/j.bbapap.2014.09.024>.
- Demirbas, A. (2008). Relationships derived from physical properties of vegetable oil and biodiesel fuels. *Fuel*, 87(8-9), 1743-1748.

- Demirbas A. (2009). Progress and recent trends in biodiesel fuels. *Energy Convers Manage*, 50, 14-34.
- Devan, P.K. & Mahalakshmi, N.V. (2009). Study of the performance, emission and combustion characteristics of a diesel engine using poon oil-based fuels. *Fuel Process Technology*, 90 (4), 513-9.
- Dillman, A. C. & Hopper, T. H. (1943). Effect of climate on yield and oil content of flaxseed and iodine number of linseed oil. *USDA Tech. Bull.* 844. 69.
- Dybing, C. D. & Zimmerman, D. C. (1965). Temperature effects on flax (*Linum usitatissimum*) growth, seed production, and oil quality in controlled environments. *Crop Science*. 5, 184–187.
- El-Hagar & El-Ghobashy, M.M. (2020). Effect of Fuel Cetane Numbers on Reducing the Ignition Delay Period and Exhaust Emissions from DI Diesel Engine. Mechanical Engineering Department, Industrial Education College, Beni-Suef University, Mesir. 15, 99-105. <https://doi.org/10.37394/232012.2020.15.13>.
- Fathurrahman, N. A., Wibowo, C.S., Bethari, S.A., Anggarani, R., Aisyah, L., & Maymuchar, M. (2020). Fuel Properties of Two Types High Speed Diesel Blending with Palm Oil Biodiesel in Indonesia. Bogor, Indonesia, *International Conference of Biomass and Bioenergy*.
- Fernando, S., Karra, P., Hewoornandez, R., & Jha, S.K. (2007). Effect of incompletely converted soybean oil on biodiesel quality. *Energy* <http://dx.doi.org/10.1016/j.energy.2006.06.019>.
- Folayan, A. Anawe, P., Aladejare, A. & Ayeni, A. (2019). Experimental Investigation of the Effect of Fatty Acids Configuration, Chain Length, Branching and Degree of Unsaturation on Biodiesel Fuel Properties Obtained from Lauric Oils, High-Oleic and High-Linoleic Vegetable Oil Biomass. *Energy Reports*, 5, 793-806.
- Galla, N.R. (2012). In vitro Antioxidant activity of *Sterculia foetida* Linn seed methanol extract. *Journal PharmTech Res*, 2 (6), 572–581.
- Garcés, R., Sarmiento C., & Mancha, M. (1994). Oleate from triacylglycerols is desaturated in cold-induced developing sunflower (*Helianthus annuus* L.) seeds. *Planta* 193:473–477. <https://doi.org/10.1007/BF02411550>.
- Gerpen, J.V. (2005). Biodiesel Processing and Production. *Journal of Fuel Proc Tech*, 86, 1097-1107.
- Ghazali, W.N.M.W., Mamat, R., Masjuki, H.H., & Najafi, G. (2015). Effects of Biodiesel from different feedstocks on engine performance and emissions : A review, *Renewable and Sustainable Energy Reviews*, 51, 585-602.
- Gouveia, L., A.C. Oliveira, R. Congestri, L. Bruno, A.T. Soares, R.S. Menezes, N.R.A. Filho, & I. Tzovenis. (2017). Biodiesel from microalgae. Microalgae-Based Biofuels and Bioproducts From Feedstock Cultivation to End-products. *Woodhead Publishing Series in Energy*, 235-258. <https://doi.org/10.1016/B978-0-08-101023-5.00010-8>.
- Green, A.G., (1986). Effect of Temperature during Seed Maturation on the Oil Composition of Low-Linolenic Genotypes of Flax1. *Crop Science*, 26. <https://doi.org/10.2135/cropsci1986.0011183x002600050025x>.

- Grunvald A.K., Carvalho, C.G.P., Leite, R.S., Mandarino, J.M.G., Andrade, C.A.B., Amabile, R.F., & Godinho, V.P.C. (2013). Influence of temperature on the fatty acid composition of the oil from sunflower genotypes grown in tropical regions. *J Am Oil Chem Soc*, 90:545–553. <https://doi.org/10.1007/s11746-012-2188-6>.
- Hendra D., Wibowo, S., & Heru, S.W. (2018). Biodiesel dari Beberapa Jenis Tanaman Hutan. *IPB Press*, 1-65.
- Haryani, F.R., Hambali, E., & Ika, A.K. (2023). Pengaruh Kondisi Proses Transterifikasi Menggunakan Metode Sonikasi Terhadap Rendemen dan Mutu Etil Ester Minyak Ikan. *Jurnal Teknologi Industri Pertanian*, 33 (1), 32-40. <https://doi.org/10.24961/j.tek.ind.pert.2023.33.1.32>.
- Herdiana, N. (2005). Potensi Budidaya Kepuh (*Sterculia foetida* Linn). *Proseding Hasil-Hasil Penelitian Hutan Tanaman Baturaja*, 5 Desember 2005.
- Heyne, K. (1987). Tumbuhan Berguna Indonesia, Terjemahan, Jilid 3. Jakarta : *Yayasan Fasilitas Wana Jaya*.
- Hoang, A.T. (2021). Prediction of the density and viscosity of biodieseland the influence of biodiesel properties on a diesel engine fuel supply system. *Journal of Marine Engineering & Technology*, 20 (5), 299-311. doi:10.1080/20464177.2018.1532734.
- Hussain, S.S., Janarthan, M., Anusha, S.K., & Ranjani, M. (2014). Preclinical evaluation of anti-diabetic and anti hyperlipidemic activity of methanolic extract of *Sterculia foetida* leaves by using wistaralbinorats. *Indian J. Res. Phar, Biotechnol*, 2 (6), 1430-1438.
- IESR. (2020). Indonesia Clean Energy Outlook : Tracking Progress and Review of Clean Energy Development in Indonesia. Jakarta: *Institute for Essential Services Reform (IESR)*.
- IESR. (2022). Indonesia Energy Transition Outlook 2023 : Tracking Progress of Energy Transition in Indonesia: Pursuing Energy Security in the Time of Transition. Jakarta: *Institute for Essential Services Reform (IESR)*.
- Iskandar. (2011). Performan Reproduksi Sapi PO pada Dataran Rendah dan Dataran Tinggi di Provinsi Jambi. *Jurnal Ilmiah Ilmu-Ilmu Peternakan*, 17 (1), 51-61.
- IUPAC. (1997). Compendium of Chemical Terminology (edisi ke-2nd). International Union of Pure and Applied Chemistry. doi:10.1351/pac199567081307.
- Jamil, L.N. (2015). Tingkat Kebugaran Jasmani Siswa Kelas V SDN 1 Samigaluh Di Daerah Dataran Tinggi dan Siswa Kelas V SDN Punukan Di Daerah Dataran Rendah Di Kabupaten Kulon Progo. Skripsi. Yogyakarta : *Universitas Negri Yogyakarta*.
- Jia, W. T., Yang, Z., Guo, X. N., & Zhu, K. X. (2021). Effect of superheated steam treatment on the lipid stability of whole wheat flour. *Food Chemistry*, 363.
- Júnior, J.B.D.S., Barbosa, M.O., da Silva, S.I., da Silva, P.A., de Gusmão, N.B., & Oliveira, A.F.M. (2023). Seed oil content and fatty acid composition in natural populations of *Tarenaya longicarpa* (Cleomaceae)

- during the dry and rainy seasons in Northeast Brazil. *Brazilian Journal of Botany*, 46,835–843. <https://doi.org/10.1007/s40415-023-00930-8>.
- Kale, S.S., Darade, V., & Thakur, H.A. (2011). Analysis of fixed oil from *Sterculia Foetida* linn. *International Journal Pharm Sci Res*, 2 (11), 08-14.
- Kartika, I.A., Yani, M., & Dede, H. (2011). Transesterifikasi In Situ Biji Jarak Pagar: Pengaruh Jenis Pereaksi, Kecepatan Pengadukan dan Suhu Reaksi Terhadap Rendemen dan Kualitas Biodiesel. *Jurnal Teknologi Indonesia Pertanian*, 21 (1), 24-33.
- Kavitha, M.S. & Murugavelh, S. (2019). Optimization and transesterification of sterculia oil: Assessment of engine performance, emission and combustion analysis. *Journal of Cleaner Production*, 234, 1192-1209. <https://doi.org/10.1016/j.jclepro.2019.06.240>.
- Kementrian Lingkungan Hidup dan Kehutanan. (2022). Laporan Inventarisasi Gas Rumah Kaca (GRK) dan Monitoring, Pelaporan, Verifikasi (MPV) 2021.
- Ketaren, S. (1986). Minyak dan Lemak Pangan, Edisi 1. Jakarta : *Universitas Indonesia (UI Press)*.
- Knothe, G. (2002). Structure indices in FA chemistry. How relevant is the iodine value?. *Journal America Oil Chemical Society*, 79, 847–854. <https://doi.org/10.1007/s11746-002-0569-4>.
- Knothe, G. & Kenar, J.A. (2004). Determination of the fatty acid profile by 1 H-NMR spectroscopy. *European Journal Lipid Science Technology*, 106, 88–96.
- Lajara, J.R., Diaz, U., & Quidiello, R.D. (1990). Definite influence of location and climatic conditions on the fatty acid composition of sunflower seed oil. *J Am Oil Chem Soc*, 67:618–623. <https://doi.org/10.1007/BF02540410>.
- Liaotrakoon, W., Namhong, T., Yu, C.H. & Chen, H.H. (2016). Impact of roasting on the changes in composition and quality of cashew nut (*Anacardium occidentale*) oil. *International Food Research Journal*, 23 (3) : 986-991.
- Liu, J., Chen, M., Zhang, Y. & Zheng, B. (2022). Analyses of the oil content, fatty acid composition, and antioxidant activity in seeds of *Thlaspi arvense* L. from diferent provenances and correlations with environmental factors. *Chemical and Biological Technologies in Agriculture*. <https://doi.org/10.1186/s40538-021-00276-x>.
- Lobo, I.P., Ferreira, S.L.C., & da Cruz, R.S. (2009). Biodiesel: Quality parameters and analytical methods. *Quim. Nova*, 32 (6), 1596–1608.
- Luo, Y., Yu, M., Liyixia, Z., & Chen, J. (2024). Effect of different pretreatment methods on the stability of pumpkin seed milk and potential mechanism. *Food Chemistry*, 452. <https://doi.org/10.1016/j.foodchem.2024.139582>.
- Ma, Y., Wang, S., Liu, X., Yu, H., Yu, D., Li, G., & Wang, L. (2021). Oil content, fatty acid composition and biodiesel properties among natural provenances of siberian apricot (*Prunus sibirica* L.) from China. *GCB Bioenergy*, 13:112–132. <https://doi.org/10.1111/gcbb.12759>.
- Manurung, R., Daniel, L., de Bovenkamp, H.H.v., Buntara, T., Maemunah, S., Kraai, G., Makertihartha, I.G.B.N., Broekhuis, A.A., & Heeres, H.J. (2012). Chemical modification of *Sterculia foetida* L. Oil to branched



- ester derivatives. *Eur. J. Lipid Sci. Technol*, 144, 31-48.  
<https://doi.org/10.1002/ejlt.201100149>.
- Matinja, A. I., Mohd Zain, N. A., Suhaimi, M. S., & Alhassan, A. J. (2018). Optimization of Biodiesel Production from Palm Oil Mill Effluent using Lipase Immobilized in PVA-Alginate-Sulfate Beads. *Renewable Energy*.  
<https://doi.org/10.1016/j.renene.2018.12.079>.
- Meher, L.C., Vidya, S., Dharmagadda, S., & Naik, S.N. (2006). Optimization of alkali-catalyzed transesterification of *Pongamia pinnata* oil for production of biodiesel. *Bioresources Technology*, 97 (12).  
<https://doi.org/10.1016/j.biortech.2005.07.003>.
- Mirzaie, A., Mohammadi, K., Parvini, S., Khoramivafa, M., & Saeidi, M. (2020). Yield quantity and quality of two linseed (*Linum usitatissimum* L.) cultivars as affected by sowing date. *Ind. Crops Prod.* 158  
<https://doi.org/10.1016/j.indcrop.2020.112947>.
- Mohadeseh, K., Alahdadi, I., Soltani, E., Boelt, B., & Fatemeh, B. (2020). Variation of seed oil content, oil yield, and fatty acids profile in Iranian *Nigella sativa* L. landraces. *Industrial Crops and Products*, 149.  
<https://doi.org/10.1016/j.indcrop.2020.112367>.
- Mohamed, H.A. (1998). The use of sesame oil unsaponifiable matter as a natural antioxidant. *Food Chemical*. 62 (3), 269-276.
- Mujumdar, A.M., Naik, D.G., Waghole, R.J., Kulkarni, D.K., & Kumbhojkar, M.S. (2000). Pharmacological studies on *Sterculia foetida* leaves. *Pharmaceut. Biology*, 38 (1), 13-17.
- Munarso, J. (2010). Plantation of *Sterculia foetida*. L as vegetable oil. Information technology agriculture. Jakarta : *Indonesia Agency for Agricultural Research, and Development*, 13-5.
- Munoz, R.A.A., Fernandez, D.M., Santos, D.Q., Barbosa, T.G.G., & Sousa, R.M.F. (2012). Biodiesel: Production, Characterization, Metallic Corrosion and Analytical Methods for Contaminants. *Biodiesel - Feedstocks, Production, and Applications*. <https://doi.org/10.5772/53655>.
- Musawwa, A., Fadhilah, F., Sulistiono, Primandiri, P., Rahmawati, I., & Santoso, A. (2022). Karakteristik Morfologi Tanaman Kepuh (*Sterculia foetida* L.) di Kabupaten Kediri. *Seminar Nasional Sains, Kesehatan, dan Pembelajaran*.
- Naik , D.G., Mujumdar, A.M., Waghole, R.J., Misar, A.V., Bligh, S.A., Bash, A., & Crowder, J. (2004). Taraxer-14-en-3 $\beta$ -ol, an anti-inflammatory compound from *Sterculia foetida* L. *Planta Medica*, 70 (1), 68–69.
- Obadiah, A., Swaroopa, G. A., Kumar, S. V., Jeganathan, K. R., & Ramasubbu, A. (2012). Biodiesel production from Palm oil using calcined waste animal bone as catalyst. *Bioresource Technology*, 116, 512–516.  
<https://doi.org/10.1016/j.biortech.2012.03.11>.
- Oktaningrum, G.N. (2010). Pengaruh Konsentrasi Katalis KOH dan Suhu pada Proses Transesterifikasi In Situ Bungkil Wijen (Sesame Cake) Terhadap Produksi Biodiesel. Skripsi. Fakultas Pertanian. Universitas Sebelas Maret. Surakarta.

- Oktaviani, N.D. (2018). Hubungan Lamanya Pemanasan dengan Kerusakan Minyak Goreng Curah Ditinjau dari Bilangan Peroksida. *Jurnal Biomedika*, 1 (1), 31-35.
- Oliveira, J.T.A., Vasconcelos, I.M., Bezerra, L.C.N.M., Silveira, S.B., Monteiro, A.C.O., & Moreira, R.A. (2000). Composition and nutritional properties of seeds from *Pachira aquatica* Aubl, *Sterculia striata* St. Hilet Naud and *Terminalia catappa* Linn. *Food Chemical*. 70 (2), 185–191.
- Ong, H.C., A.S. Silitonga, H.H., Masjuki, T.M.I., Mahlia, W.T., Chong, M.H., & Boosroh. (2013). Production and comparative fuel properties of biodiesel from non-edible oils: *Jatropha curcas*, *Sterculia foetida* and *Ceiba pentandra*. *Energy Conversion and Management*, 73, 245-255. <https://doi.org/10.1016/j.enconman.2013.04.011>.
- Papimichali, I., Louli, V., & Magoulas, K. (2000). Supercritical fluid extraction of celery seed oil. *Journal of Supercritical Fluids*, 18, 213–226.
- Pasae, Y. (2020). Biodiesel dari Asam Lemak Bercabang Karakteristik, Bahan Baku, Teknologi Proses. Makassar : *Nas Media Pustaka*.
- Pavithra, H.R., Gowda, B., Prasanna, K.T., & Shivanna, M.B. (2013). Genetic variability studies in seed biochemical traits of *Pongamia pinnata* (L.) Pierre accessions. *J Am Oil Chem Soc*, 90:1239–1252. <https://doi.org/10.1007/s11746-013-2262-8>.
- Pinzi, S., Garcia, I.L., Lopez-Gimenez, F.J., Luque de Castro, M.D., Dorado, G., & Dorado, M.P. (2009). The Ideal Vegetable Oil-based Biodiesel Composition: A Review of Social, Economical and Technical Implications. *Energy & Fuels*, 23(5), 2325–2341. <https://doi.org/10.1021/ef801098a>.
- PLN. (2021). Rencana Usaha Penyediaan Tenaga Listrik (RUPTL). Kementerian Energi dan Sumber Daya Mineral Republik Indonesia.
- Prakoso, T., Soerawidjaja, T., & Pasae, Y. (2005). Pembuatan Asam Lemak Bercabang dari Minyak Kepoh. *Jurnal Teknik Kimia Indonesia*, 4 (1), 167-174.
- Prasad, R.B.N., Nagender, Y.R., & S. Venkob R. (1987). Phospholipids of palash (*Butea monosperma*), papaya (*Carica papaya*), jangli badam (*Sterculia foetida*), coriander (*Coriandrum sativum*) and carrot (*Daucus carota*) seeds. *Journal of the American Oil Chemists Society*, 64 (10), 1424-1427.
- Pritchard, F.M., Eagles, H.A., Norton, R.M., Salisbury, P.A., & Nicolas, M. (2000). Environmental effects on seed composition of Victorian canola. *Aust J Exp Agric*, 40:679–685. <https://doi.org/10.1071/EA99146>
- Pullen, J., & Khizer S. (2014). Factors affecting biodiesel engine performance and exhaust emissions, Part II : Experimental study. *Energy*, 72 <https://doi.org/10.1016/j.energy.2014.02.034>.
- Qiao, Q., Xue, W., & Feng, Z. (2018). Variability of seed oil content, fatty acid composition, and nervonic acid content in *Acer truncatum*, native to 14 regions of China. *Grasas Aceites*, 69 : e274. <https://doi.org/10.3989/gya.0465181>.
- Rajakaruna, N. & Boyd, R.S. (2008). Edaphic Factor. General Ecology. Vol. [2] of Encyclopedia of Ecology. Oxford: *Elsevier*, 5, 1201-1207.

- Rajasekharreddy, P. & Rani, P.U. (2014). Biofabrication of Ag nanoparticles using *Sterculia foetida* L. seed extract and their toxic potential against mosquito vectors and HeLa cancer cells. *Materials Science and Engineering* : C. Volume 39, 203-212. <https://doi.org/10.1016/j.msec.2014.03.003>.
- Rakow, G., & McGregor, D.I. (1975). Oil, fatty acid and chlorophyll accumulation in developing seeds of two “linolenic-acid lines” of low erucic-acid rapeseed. *Can J Plant Sci*, 55,197–204. <https://doi.org/10.4141/cjps75-029>.
- Rodrigues, J., Miranda, I., Gominho, J., Vasconcelos, M., Barradas, G., & Pereira, H. (2016). Modeling and optimization of laboratory scale conditioning of *Jatropha curcas* L. seeds for oil expression. *Industrial Crops and Products*, 83, 614–619.
- Rotundo, J.L., & Westgate, M.E. (2009). Meta-analysis of environmental effects on soybean seed composition. *Field Crops Res*, 110,147–156. <https://doi.org/10.1016/j.fcr.2008.07.012>.
- Sanford, S., White, J., Shah, P., Wee, C., Valverde, M., & Meier, G. (2011). Feedstock and biodiesel characteristics report.
- Sarin, A. (2012) Biodiesel Production and Properties. Royal Society of Chemistry, United Kingdom : *Cambridge*.
- Satou, K., Takahashi, Y., & Yoshii, Y. (2010). Effect of superheated steam treatment on enzymes related to lipid oxidation of brown rice. *Food Science and Technology Research*, 16 (1), 93-97.
- Saxenaa, P., Jawaleb, S., & Joshipurac, M.H. (2013). A review on prediction of properties of biodiesel and blends of biodiesel. Chemical, Civil and Mechanical Engineering Tracks of 3rd Nirma University International Conference on Engineering (NUiCONE 2012). *Procedia Engineering* 51, 395-402. <https://doi.org/10.1016/j.proeng.2013.01.055>.
- Seiler, G.J. (1994). Oil concentration and fatty acid composition of achenes of north American *Hellanthus* (asteraceae) species. *Econ Bot.* 48(3),271–9
- Shamsundar, S.G., & Paramjyothi, S. (2010). Preliminary pharmacognostical and phytochemical investigation on *Sterculia foetida* Linn. seeds. *Africa Journal Biotechnology*, 9 (13), 1978–1989.
- Silitonga, A.S., Ong, H.C., Masjuki, H.H., Mahlia, T.M.I., Chong, W.T., & Yusaf, T.F. (2013). Production of biodiesel from *Sterculia foetida* and its process optimization. *Fuel*, Volume 111, 478-484. <https://doi.org/10.1016/j.fuel.2013.03.051>.
- Simsek, S. (2020). Effects of biodiesel obtained from Canola, sefflower oils and waste oils on the engine performance and exhaust emissions. *Fuel*,265, 117. <https://doi.org/10.1016/j.fuel.2020.117026>.
- Sosulski, F.W., Gore, R.F., 1964. The effect of photoperiod and temperature on the characteristics of flaxseed oil. *Can. J. Plant Sci.* 44, 381–382. <https://doi.org/10.4141/cjps64-072>.
- Sousa, L.S.D., Moura, C.V.R.d., & Moura, E.M.d. (2021). Action of natural antioxidant on the oxidative stability of soy biodiesel during storage. *Fuel*, 288. <https://doi.org/10.1016/j.fuel.2020.119632>.



- Sudradjat, R., Yogie, S., Hendra, D., & Setiawan, D. (2010). Pembuatan Biodiesel Biji Kepuh dengan Proses Transesterifikasi. *Jurnal Penelitian Hasil Hutan*, 28 (2), 145-155.
- Sudrajat, R. (1987). Useful plants for Indonesia. Jakarta : *The Forestry Research and Development Agency*.
- Sudrajat R. (2005). Optimization of the of science and technology role to improve forest and land productivity. Jakarta: *The Forestry Research and Development Agency*.
- Suganya, J., Viswanathan, T., Radha, M., Rathisre, P.R., & Marimuthu, N. (2017). Invitro Antibacterial Activity of different crude leaves extracts of *Sterculia foetida* Linn. *Research Journal Pharmacy Technology*, 10 (7), 2013–2017.
- Susanti. (2006). Karakteristik Ekstraksi Buah Merah (*Pandanus Conoideus* Lam) da Uji Biologis Terhadap Proliferasi Sel Limposit Mencit. Skripsi. Departemen Ilmu dan Teknologi Pangan. Bogor : Fakultas Teknologi Pertanian IPB.
- Taman Nasional Alas Purwo. (2010). Kepuh (*Sterculia foetida* L.). Banyuwangi.
- Trémolières, A., Dubacq, J.P., & Drapier, D. (1982). Unsaturated fatty acids in maturing seeds of sunflower and rape: regulation by temperature and light intensity. *Phytochem*, 21, 41–45. [https://doi.org/10.1016/0031-9422\(82\)80011-3](https://doi.org/10.1016/0031-9422(82)80011-3).
- Tsehay, S., Ortiz, R., Geleta, M., Bekele, E., Tesfaye, K., & Johansson, E. (2021). Nutritional profile of the Ethiopian oilseed crop Noug (*Guizotia abyssinica* Cass.): opportunities for its improvement as a source for human nutrition. *Foods*, 10:1778. <https://doi.org/10.3390/foods10081778>
- Usta, N., Aydoğan, A.H.B., Uğuzdoğan, E., & Özkal, S.G. (2011). Properties and quality verification of biodiesel produced from tobacco seed oil. *Energy Conversion and Management*, 52 (5), 2031-2039. <https://doi.org/10.1016/j.enconman.2010.12.021>.
- Vipunungeun, N. & Palanuvej, C. (2009). Fatty acids of *Sterculia foetida* seed oil. *Journal Health Res.*, 23 (157).
- Vital, P.G., Velasco, R.N., Demigillo, J.M., & Rivera, W.L. (2010). Antimicrobial activity, cytotoxicity and phytochemical screening of *Ficus septica* Burm and *Sterculia foetida* L. leaf extracts. *Journal Medical Plants Res.*, 4 (1), 58–63.
- Wijayanti, R. (2009). Arang Aktif dari Ampas Tebu Sebagai Adsorben pada Pemurnian Minyak Goreng Bekas. Skripsi. Bogor : *Institut Pertanian Bogor*.
- Woo, D.G. & Kim, T.H. (2019). Pretreatment methods to improve the kinematic viscosity of biodiesel for use in power tiller engines. *Journal Mechanical Science Technology*, 33, 3655–3664. <https://doi.org/10.1007/s12206-019-0706-2>.
- World Agroforestry Centre. (2010). *Sterculia foetida*.
- Yang, Z., Zhang, C., Xu, C., Deng, Y., Wen, B., Xie, P., & Huang, L. (2022). Effect of geographical location and soil fertility on main phenolic compounds and fatty acids compositions of virgin olive oil from Leccino

cultivar in China. *Food Research International*, 157  
<https://doi.org/10.1016/j.foodres.2022.111207>.

Yunxia, Ma., Quanxin, B., Gangtie, L., Xiaojuan, L., Guanghui, F., Yang, Z., & Wang, L. (2022). Provenance variations in kernel oil content, fatty acid profile and biodiesel properties of *Xanthoceras sorbifolium* Bunge in northern China. *Industrial Crops and Products*, 151.  
<https://doi.org/10.1016/j.indcrop.2020.112487>.

Zhang, Z-S. , Jia, H.J., Qin, H., Wei, Y.Y., Li, B.Z., Liu, Y.L., Wei, A.C., Zhu, W.X., & Wang, Y. (2023). Effect of steam pretreatment on the microstructure of tiger nuts (*Cyperus esculents* L.) and quality properties of its oil. *Food Science and Technology*, 184.  
<https://doi.org/10.1016/j.lwt.2023.114985>.