

DAFTAR PUSTAKA

- Bernesson, S. D. and Hansson, P., 2006, *A limited LCA Comparing Large Scale and Small Scale Production of Ethanol for Heavy Engines under Swedish Conditions*, Biomass and Bioenergy, vol. 30, p. 46 – 57.
- Budiman, A., Kusumaningtyas, R.D., Pradana, Y.S., Lestari, N.A., 2017, *Biodiesel : Bahan Baku, Proses dan Teknologi*, Yogyakarta: Gadjah Mada University Press.
- Caldeira, Carla., Queirós, João., Noshadravan, Arash., Freire, Fausto., 2016, *Incorporating uncertainty in the life cycle assessment of biodiesel from waste cooking oil addressing different collection systems*, Resources, Conservation and Recycling , vol. 112 , p. 83–92.
- Ciambrone, David F., 1997, *Environmental Life Cycle Analysis*, Florida: CRC Press.
- Curran, M. A., 1996, *Environmental life cycle assessment*, New York: McGraw Hill.
- Daun, J. K., Michael Eskin, N. A., Hickling, D., 2011, *Canola: Chemistry, Production, Processing, and Utilization*, Urbana : AOCS Press.
- Davies, Wayne, 2005, *Biodiesel Technologies and Plant Design*, University of Sydney.
- Debalina, S.and Ralph, W. P., 2013, *Chemicals from Biomass: Integrating Bioprocessors into Chemical Production Complexes for Sustainable Development*, Francis: CRC Press, Taylor and Francis Group, 6000 Broken Sound Parkway NW, Suite 300 Boca Raton, FL.
- Evangelos, G. G, 2013, *A Statistical Investigation of Biodiesel Physical and Chemical properties and their Correlation with the Degree of Unsaturation*, Renewable Energy, vol. 50, p. 858 – 878.
- Filamon, A U, 2010, *Biofuels from Plant Oils*, Jakarta,Indonesia.: The ASEAN Foundation.
- Gasol, Carles M., Salvia, Jordi., Serra, Joan., Anto, Assumpcio., Sevigne, Eva., Rieradevall, Joan., Gabarrell, Xavier., 2012, *A life cycle assessment of*

- biodiesel production from winter rape grown in Southern Europe*, biomass and bioenergy , vol. 40 , pp. 71-81.
- Goedkoop, M., Schryver, A., Oele, M., Durksz, S. and Roest, D, 2010, *Introduction to LCA with SimaPro 7*, PRe Consultants.
- Goedkoop, Mark., Oele, Michiel., Vieira, Marisa., Leijting, Jorrit., Ponsioen, Tommie., Meijer, Ellen., 2016, *SimaPro Tutorial*, Creative Commons, San Francisco, California.
- Harold, H. S, 2013, *Chemistry of Fossil Fuels and Biofuels*. Cambridge University Press, New York. ISBN 978-0-521-11400.
- Haryanto, Bonde, 2002, *Bahan Bakar Alternatif Biodiesel*, Medan: USU digital library.
- Hasibuan, Sawarni and Thaheer, Hermawan., 2017, *Life Cycle Impact Assessment Produksi Biodiesel Sawit untuk Mendukung Keberlanjutan Hilirisasi Industri Sawit Indonesia*, in Seminar Nasional Inovasi Dan Aplikasi Teknologi Di Industri, Malang.
- Henson, I. E., 2005, *An Assessment Of Changes In Biomass Carbon Stocks In Tree Crops And Forests In Malaysia*, Journal of Tropical Forest Science 17 (2):279-296. <https://www.jstor.org/stable/23616575>.
- Hou, Jian., Zhang, Peidong., Yuan, Xianzheng., Zheng, Yonghong., 2011, *Life cycle assessment of biodiesel from soybean, jatropha and microalgae in China conditions*, Renewable and Sustainable Energy Reviews , vol. 15 , p. 5081–5091.
- Hubbert, M.King., 1956, *Nuclear Energy and Fossil Fuels*, Shell Development Company, Houston, Texas.
- Iglesias, Loreto., Laca, Adriana., Herrero, Mónica., Díaz, Mario., 2012, *A life cycle assessment comparison between centralized and decentralized biodiesel production from raw sunflower oil and waste cooking oils*, Journal of Cleaner Production , vol. 37 , pp. 162-171.
- Inubushi, K., Furukawa, Y., Hadi, A., Purnomo, E., Tsuruta, H., 2003, *Seasonal changes of CO₂, CH₄, and N₂O fluxes in relation to land-use change in tropical peatlands located in coastal area of South Kalimantan*, Chemosphere 52:603–608, doi:10.1016/S0045-6535(03)00242-X.

- IPCC, 2006, *IPPC Guideline for National Greenhouse gas Inventories*, Institute for Global Environment Strategist. Hayama, Japan.
- Iriarte, Alfredo., Rieradevall, Joan., Gabarrell, Xavier., 2010, *Life cycle assessment of sunflower and rapeseed as energy crops under Chilean conditions*, Journal of Cleaner Production , vol. 18 , p. 336–345.
- ISO 14040, 2006, *Environmental management — Life cycle assessment — Principles and framework*, Switzerland: ISO.
- Jahirul, M.I., Brown, R.J., Senadeera, W., O'Hara, I.M., Ristovski, Z.D., 2013, *The use of artificial neural networks for identifying sustainable biodiesel feedstocks*, Energies, vol 6, p 3764-3806.
- Jincheng, Ding, B. H., And Jianxin Li., 2011, *Biodiesel Production from Acidified Oils via Supercritical Ethanol*, Energies, vol 4, p 2212-2223.
- Lombardi, Lidia., Mendecka, Barbara., Carnevale, Ennio., 2017. *Comparative life cycle assessment of alternative strategies for energy recovery from used cooking oil*, Journal of Environmental Management , pp. 1-11.
- Malça, João., Coelho, António., Freire, Fausto., 2014, *Environmental life-cycle assessment of rapeseed-based biodiesel: Alternative cultivation systems and locations*, Applied Energy , vol. 114 , p. 837–844.
- Marshall, A. T., 2007, *Bioenergy from Waste: A Growing Source of Power*, Waste Management World Magazine, April, hal. 34-37.
- McKinney, M.L. and Schoch, R.M., 2003, *Environmental Science: Systems and Solutions*, Third Edition, University of Tennessee, Knoxville.
- McManus, Marcelle C., 2011, *An environmental assessment of the production of biodiesel from waste oil : two case studies*, In World Renewable Energy Congress, Linkoping, Sweden. doi:10.3384/ecp11057455.
- Morais, Sérgio., Mata, Teresa M., Martins, António A., Pinto, Gilberto A., Costa, Carlos A.V., 2010, *Simulation and life cycle assessment of process design alternatives for biodiesel production from waste vegetable oils*, Journal of Cleaner Production , vol. 18 , pp. 1251-1259.
- Noordwijk, Meine van., Cerri, Carlos., Woomer, Paul L., Nugroho, Kusumo., Bernoux, Martial., 1997, *Soil carbon dynamics in the humid tropical forest*

- zone, *Geoderma* 79:187-225, doi:[https://doi.org/10.1016/S0016-7061\(97\)00042-6](https://doi.org/10.1016/S0016-7061(97)00042-6).
- Oliva, Felipe G., Jr, Robert L. S., Kelly, Eugene, 1999, *Effects of slash-and-burn management on soil aggregate organic C and N in a tropical deciduous forest*, *Geoderma* 88:1-12, doi:[https://doi.org/10.1016/S0016-7061\(98\)00063-9](https://doi.org/10.1016/S0016-7061(98)00063-9).
- Ortner, Maria E., Müller, Wolfgang., Schneider, Irene., Bockreis, Anke., 2016, *Environmental assessment of three different utilization paths of waste cooking oil from households*, *Resources, Conservation and Recycling* 106:59–67, doi:<http://dx.doi.org/10.1016/j.resconrec.2015.11.007>.
- Peiro', L. Talens., Lombardi, L., Me' ndez, G. Villalba., Durany, X. Gabarrell i., 2010, *Life cycle assessment (LCA) and exergetic life cycle assessment (ELCA) of the production of biodiesel from used cooking oil (UCO)*, *Energy*, vol. 35 , p. 889–893.
- Peraturan Presiden Republik Indonesia Nomor 5 Tahun 2006 Tentang Kebijakan Energi Nasional.
- Pereira, Joana Portugal., Nakatani, Jun., Kurisu, Kiyoo., Hanaki, Keisuke., 2016, *Life cycle assessment of conventional and optimised Jatropha biodiesel fuels*, *Renewable Energy*, vol. 86, pp. 585-593.
- Perez, Jose A. G., Vila, Francisco J. G., Almendros, Gonzalo., Knicker, Heike., 2004, *The effect of fire on soil organic matter—a review*, *Environment International* 30:855– 870, doi:10.1016/j.envint.2004.02.003.
- Phan, Anh N. and Phan, Tan M., 2008, *Biodiesel production from waste cooking oils*, *Fuel*, vol 87, p 3490-3496.
- Pleanjai, Somporn., Gheewala, Shabbir H., Garivait, Savitri, 2004, *Environmental Evaluation of Biodiesel Production from Palm Oil in a Life Cycle Perspective*, in The Joint International Conference on “Sustainable Energy and Environment (SEE)”, Hua Hin, Thailand.
- Rebitzer G, Ekvall T, Frischknecht R, Hunkeler D, Norris G, Rydberg T, Schmidt, W.P., Suh, S., Weidema, B.P., Pennington, D.W., 2004, *Life cycle assessment: framework, goal and scope definition, inventory analysis, and applications*, *Environment International*, vol. 30, p. 701–720.

- Reijnders, L and M.A.J. Huijbregts, 2008, *Palm oil and the emission of carbon-based greenhouse gases*, Journal of Cleaner Production 16:477-482, doi:10.1016/j.jclepro.2006.07.054.
- Reijnders, L. and M.A.J. Huijbregts, 2008, *Biogenic greenhouse gas emissions linked to the life cycles of biodiesel derived from European rapeseed and Brazilian soybeans*, Journal of Cleaner Production 16:1943-1948, doi:10.1016/j.jclepro.2008.01.012.
- Requena, J.F. Sanz., Guimaraes, A.C., Alpera, S. Quirós., Gangas, E. Relea., Navarro, S. Hernandez., Gracia, L.M. Navas., Gil, J. Martin., Cuesta, H. Fresneda., 2011, *Life Cycle Assessment (LCA) of the biofuel production process from sunflower oil*, Fuel Processing Technology, vol. 92, p. 190–199.
- Sajid, Zaman., Khan, Faisal., Zhang, Yan., 2016, *Process simulation and life cycle analysis of biodiesel production*, Renewable Energy, vol. 85., p. 945-952.
- Siregar, Kiman., Tambunan, Armansyah H., Irwanto, Abdul K., Wirawan, Soni S., Araki, Tetsuya., 2015, *A Comparison of Life Cycle Assessment on Oil Palm *Elaeis guineensis* Jacq) and Physic nut (*Jatropha curcas* Linn.) as Feedstock for Biodiesel Production in Indonesia*, Energy Procedia, vol. 65, p. 170 – 179.
- Siregar, Kiman, 2015, *Strategy to Reduce GHG Emission and Energy Consumption at Process Production of Biodiesel Using Catalyst From Crude Palm Oil (CPO) and Crude Jatropha Curcas Oil (CJCO) in Indonesia*, Advanced Science Engineering Information Technology, vol. 5, pp. 293-299.
- Soldal, Ellen and Modahl, Ingunn Saur., 2016, *Greenhouse gas protocol Scope 3 reporting*, Borregaard, Europe.
- Soraya, Delfi F., Gheewala, Shabbir H., Bonnet, Sébastien., Tongurai, Chakrit., 2014, *Life Cycle Assessment of Biodiesel Production from Palm Oil in Indonesia*, Journal of Sustainable Energy & Environment , vol. 5, pp. 27-32.

- Stow, M., McManus, M. C., Bannister, C., 2012, *A life cycle assessment comparison of rapeseed biodiesel and conventional diesel*, in Sustainable Vehicle Technologies, pp. 23-33.
- Undang-Undang Republik Indonesia Nomor 30 Tahun 2007 Tentang Energi.
- Undang-Undang Republik Indonesia Nomor 32 Tahun 2009 Tentang Perlindungan Dan Pengelolaan Lingkungan Hidup.
- United Nations Development Programs. 2007. *Sisi lain perubahan iklim: Mengapa Indonesia harus beradaptasi untuk melindungi rakyat miskinnya*. UNDP Indonesia. Jakarta.
- Vleeshouwers, L. M. and Verhagen, A, 2002, *Carbon emission and sequestration by agricultural land use: a model study for Europe*, Global Change Biology 8:519-530, doi:<https://doi.org/10.1046/j.1365-2486.2002.00485.x>.
- Yang, H. H., Chien, S. M., Lo, M. Y., Lan, J. C., W., Lu, W. C. and Ku, Y. Y, 2007, *Effects of Biodiesel on Emissions of Regulated Air Pollutants and Polycyclic Aromatic Hydrocarbons under Engine Durability Testing*, Atmospheric Environment, vol. 41, p. 7232 – 724.
- Yano, Junya., Aoki, Tatsuki., Nakamura, Kazuo., Yamada, Kazuo., Sakai, Shin-ichi., , 2015, *Life cycle assessment of hydrogenated biodiesel production from waste cooking oil using the catalytic cracking and hydrogenation method*, Waste Management , pp. 1-15.
- Yusoff, Sumiani and Hansen, Sune Balle., 2007, *Feasibility Study of Performing an Life Cycle Assessment on Crude Palm Oil Production in Malaysia*, Int J LCA 12 (1):50-58, doi:<https://doi.org/10.1065/lca2005.08.226>.

