

DAFTAR PUSTAKA

- Allen, M. Dan G. Prateepchaikul. 2006. The modelling of biodiesel reaction. Departement of Mechanical Engineering. Prince Songkla University. www.ratree.psu.ac.th. Tanggal akses 4 September 2007.
- Atabani, A.E, Silitonga A.S, Badrudin. I.A, Mahlia T.M.I, Masjuki, H.H dan Mekhilef, S. 2011. *A Comprehensive Review on Biodiesel as An Alternative Energy Resources and its Characteristics*. University of Malaysia.
- Anonim 2005. Rahasia biodiesel, Solar Masa Depan. [http://www.kompas.com/KCM – Bukan Sekedar Berita.htm](http://www.kompas.com/KCM-Bukan-Sekedar-Berita.htm). Tanggal akses 15 Desember 2005.
- APCC. 2003. *APCC Standard for Virgin Coconut Oil*. [www.apccsec.org/document/ VCNO.PDF](http://www.apccsec.org/document/VCNO.PDF) (diunduh pada 26 September 2014).
- Arita, R, 1965, *Introduction to The Analysis Of Chemical Reactor*, Prentice Hil, Inc.
- Baktir, A, 2003, *Pembuatan Biodiesel dari Minyak Jarak dengan Basa Kuat*, Prosiding Seminar dan Rekayasa dan Proses, 2003 Semarang.
- Benitez, F.A. 2004. Effect the use of ultrasonic waves on Biodiesel Productions in Alkaline Transesterification of Bleached Tallow and

- Vegetable Oils : Cavitation Model. Departement of Chemical Engineering. Dissertation . University of Portorico – Maygues Campus. Portorico.
- E.S. Umdu. 2008. *Biodiesel Production From Canola Oil Over Heterogeneous Basic Catalyst*, Izmir Institute of Technology.
- Bindal, V.N. 1999. Tranducers for Ultrasonic Flaw Detection. Narosa Publishing House. London.
- Bockisch, M. 1993. Nahrungsfette und-Ole. Eugen Ulmer GmbH & Co. Stuttgart.
- Bournaya, L. Cassanavea D. Delfortb, B. Hillionb, G. Chodorge, J.A, 2005, New Heterogeneous Process Biodiesel Production : A Way to Improve the quality and the crude glyserin produced by biodiesel llants, J. Catalyst,106, 190-192.
- Canaki, M., V. Gerpen, 1999. Green diesel production via Acid Catalyst, Transaction of The American Society of Agricultural Engineers; 42(5) : 1203-1210.
- Chi, L. 1999. *The Production of Methyl Esters from Vegetable Oil/Fatty Acid Mixtures*, thesis, Department of Chemical Engineering and Applied University of Toronto, Toronto.
- Chungen Yin, 2012, Microwave assisted Pyrolysis of Biomass for Liquid Biofules Production, Bioresource Technology, 120, 273-284.
- Darnoko, D. Dan M. Cheryan. 2000. Kinetics of palm oil transesterfication in batch reactor. *JAOCS*, pp. 1263 – 1267, 77, No. 12, th. 2000.

Departemen Pertanian, (2005) *Revitalisasi Pertanian, Perikanan, Dan Kehutanan (RPPK)*, www.deptan.go.id.

Demirbas, D. A, 2005, Biodiesel Production from Vegetable Oils Via Catalytic and Non-Catalytic Supercritical Methanol Transesterifikation Methods, *Progres in Energy and Combustion Science* 31, 466-487.

Dermibas, A. 2001. Biodiesel from vegetable oils via transesterification in supercritical methanol. *Energy conversion and Management Vol. 43 hal. 2349 – 2356*.

Di Serio, M., Tesser, R. Lu Pengmei, Santacesaria. E, 2008 *Energi Fuel*, 22, 207-217.

Dube, M.A, Tremblay, A.Y., Liu. J, 2007, Biodiesel Production Using a Membrane Reaktor, *Bioresourced Technology*, 98, 639-647.

F. Motasemi, F.N.Ani, 2012 A Review on Microwave Aassisted Production of Biodiesel, *Renewable and Sustainable Energy Reviews* 16, 4719-4733.

Fini. A and A. Breccia, (1999), *Chemistry by Microwaves*", *Pure Appl. Chem*, Vol. 71, No.4, 573-579.

Freedman, B, Pryde, E.H, dan Mounts T.L. 1986. *Variable Affecting the Yields of Fattu Esters from Transesterfified Vegetable Oils*. Northern Regional Research Center, Agriculturla Research Service, U.S. Department of Agricultural.

- Freedman, B. Butterfield, R.O, Pryde. E.H. 1986. *Transesterification Kinetics of Soybean Oil. J.Am. Oil. Chem.Soc.* 63 (10) : 1375.80
- Fessenden, R.J. dan J.S. Fessenden. 1997. Dasar – dasar Kimia Organik. Terjemahan. Binarupa aksara. Jakarta.
- Foon, C.S. C.Y. May, M.A. Ngan dan C.C Hock. 2004. Kinetict study on transesterification of palm oil. *Journal of Oil Palm Research. Vol. 16 No. 2 Desember 2004 hal. 19-29.*
- Gogate, P.R., R.K. Tayal dan A.B. Pandit. 2006. Cavitation: A technology on the horizon *CURRENT SCIENCE, VOL. 91, NO. 1, 10 JULY 2006.*
- Heiman, W. 1976. Grundzuge der Lebensmittelchemie, Dr. Dietrich Steinkopff Verlag. Darmstadt.
- Ishii, Y. dan R. Takeuchi. 1987, Vegetable oils and their effect on Farm engine performance, *TRANSACTIONS of the ASAE* 30(1), 2-6.
- James cook University. 1983. *Thermal Efficiency of Coconut Oil as Compression Ignition Fuel.* Physic Department Jamescook University of North Quessland Townsville, Australia.
- Joelianingsih,, dkk. 2006. *Perkembangan Proses Pembuatan Biodiesel Sebagai Bahan Bakar Nabati (BBN).* *Jurnal Keteknikan Pertanian Vol. 20 No. 3 Desember 2006.*
- Kembaryanti, Sri Putri dkk. 2012. *Study Proses Pembuatan Biodiesel dari Minyak Kelapa (Coconut Oil) dengan Bantuan Gelombang*

Ultrasonik. Jogjakarta. Jurusan Teknik Kimia. Universitas Gadjah Mada

Maharani dan Zuliana. 2010. “ *Pembuatan Metil Ester (Biodiesel) dari Minyak Dedak dan Metanol Dengan Proses Esterifikasi dan Transesterifikasi* ”. Semarang :Jurusan Teknik Kimia, Universitas Diponegoro.

Manurung, Renita . 2006. *Transesterifikasi Minyak Nabati*. Jurnal Teknologi Proses 5 (1) Januari 2006: 47-52.

Mason, T.J. 1999. Sonochemistry. Oxford University Press, New York.

Maurer, K. 1991. Pflanzenolgewinnung und verwertung in landwirtschaftlichen Betrieben als Treibstoff. *Journal der Landtechick* 12 : 604 – 608.

Meher, L.C., D.V.Sagar, dan S.N. Naik. 2004. Technical aspect of biodiesel production by transesterfication-a review. *Renewable and Sustanable Energy*.

Nouredinni, H dan D.Zu. 1997. Kinetics of transesterification of soybean oil. *JACOS Vol 74 no 11. Hal. 1457-1461*.

Pak, V.M. dan A. Allexi. 1987. Praktische erfahrungen mit pflanzenolen als kraftstoff fur dieselmotoren. *Grundlage der Landtechik Bd. 37 (1987) Nr. 2*

Pasaribu, Nurhida. 2004. *Minyak Buah Kelapa Sawit*. Medan, Indonesia.

- Peterson, C.L. 1986. Vegetable oil as diesel fuel : status and researsch priorities. *Transaction of the ASAE Vol. 29(5) : September – Oktober : 1413 – 1422*
- Quitain, T.A , Hiroyuki D., Katoh, S., and Moriyoshi, T. 2011. *Microwave-Assisted hydrothermal degradation of silk protein to amino acid*. Kumamoto University Japan.
- Reefat, A.A, dan Sheltway, S.T.. *Time factor in microwave-enchaced biodiesel production*, The World Scientific and Engineering Academy and Society Transactions on Enviroment and Development, 2008
- Serio, M.D Tesser, M.R., Pengmei,L,. Santacesaria,E. 2008, *Heterogeneous Catalyst for Biodiesel Production, Energy and Fuel*, Vol 22, hal 207-217
- Scharmer, K., F. Pudeldan D. Ribarov. 1994. Unwandlung von Pflanzenoelen zu Methylund Ethylester. VDI -Berichte No. 1126.
- Schuchardt, U., R. Sercheli, dan R.M. Vargas. 1998. Transesterification of vegetable oil : a Review, *Journal of Brazilian Chemical Society*. Vol. 9 No. 1. Hal 199 -210.
- Scmidt, M. 2002. Herstellung von Biodiesel-rapsoelmethylester (RME). Experimentalvortrag nachwachsende Rohstoffe. Philipps-Universitaet marburg.

- Suess, A.A.A. 1999. Wiederverwertung von gebrauchten Speiseoelen/-fetten im energetisch – technischen Bereich. *Fortschritt – Berichte VDI*. VDI Verlag GmbH. Dusseldorf
- Susilo, B b.2007. Perlakuan Pendahuluan Microwave dan Pengepresan Bertahap untuk Per baikan Tingkat Ekstraksi Mekanik Minyak Jarak Pagar. *Prosiding : Konferensi Jarak Pagar : Menuju Bisnis Jarak Pagar yang Feasible*. SBRC LPPM – IPB Bogor. ISBN 978-979-1312-12-7.
- Susilo,B a. 2006. Biodisel. Pemanfaatan Jarak Pagar Sebagai Alternatif Bahan Bakar. Inovasi dan Teknologi. Trubus Agrisarana. Surabaya. ISBN 979-3842-25-3.
- Susilo, B a.2007. Studi penggunaan ultrasonik untuk transesterifikasi minyak tanaman menjadi biodiesel. *Prisiding Konferensi Nasional 2007 : Pemanfaatan Hasil Samping Industri dan Industri Etanol Serta Pengembangan Industri Integratednya*. Hotel Senayan Jakarta. SBRC LPPM – IPB Bogor. ISBN 978-979-1312-11-0.
- Susilo, B b. 2006. Rekayasa Inovasi Teknologi Pembangkit Energi Alternatif di Pulau – pulau Kecil dan Pesisir Selatan Jawa Timur. Laporan Penelitian. BALITBANGPROV Jawa Timur. Surabaya.
- Susilo, B c. 2006. Teknologi pengepresan biji jarak pagar (*Jatropha curcas*). Proceeding makalah seminar 2 Mei 2006 : Seminar Pengembangan Jarak Pagar dan Industri Biodiesel di Jawa Timur.

Jurusan Teknik Kimia, Fakultas Teknologi Industri, Institut 10 Nopember. Surabaya.

Susilo, B d. 2006. Uji biodiesel dari minyak goreng bekas untuk bahan bakar motor diesel. 2006. *Journal Teknologi Pertanian. No. 1 April 2006. ISSN 1411-5131. Vol. 7.*

Suslick, K.S., Y.Didenko, M.M. Fang, T.Hyeon, K.J. Kolbeck, W.B. Mc Namara III, M.M. Mdlelini dan M. Wong. 1999. Acoustic cavitation and its chemical consequences. *Philosophy Transaction of Royal Society Vol. 357 : 335 – 353. The Royal Society, London.*

Tambunan, A.H. dan Y.A. Purwanto. 1997. Peluang pemanfaatan gas buang gasifikasi untuk produksi biodiesel secara non – katalik. *Prisiding Konferensi Nasional 2007 : Pemanfaatan Hasil Samping Industri dan Industri Etanol Serta Pengembangan Industri Integratednya. Hotel Senayan Jakarta. SBRC LPPM – IPB Bogor. ISBN 978 – 979 – 1312 – 11 – 0.*

Tesfa, M., R Mishra, F. Gu dan N. Powles. 2010. *Prediction Models for Density and Viscosity of Biodiesel and Their Effect on Fuel Supply in CI Engine.* Queensgate, Huddersfield : University of Huddersfield

Treat, W.R. 1945. Process of Treating Fatty Glycerides. Patent No. 2383632. United Stated patent Offices.

Trisnobudi, A. 2001. Aplikasi Ultrasonik. Departemen fisika Teknik. Penerbit ITB, Bandung.

- Turner, T. L. 2005. Modeling and simulation of Reaction Kinetics for Biodiesel Production. Thesis Master. Department of Mechanical engineering. NC State.
- Van Gerpen, J., B. Shanks, R. Pruszko, D. Clements, dan G. Knothe. 2004. Biodiesel Production Technology. National Renewable Energy Laboratory. Colorado.
- Vellguth G. 1982. Eignung von pflanzenolen und pflanzenolderivaten als kraftstoff fur dieselmotore. *Grundlagen der Landtechnik Bd. 32 (5)*, 177 – 186.
- Vicente, G., M. Martan, dan J. Aracil. 2006. A comparative study of vegetable oils for biodiesel production in Spain. *Energy and Fuel. Vol 20 hal 394 – 398*.
- Winarno. 2007. Peluang pengembangan industri bioetanol yang terintegrasi. *Prosiding Konferensi Nasional 2007 : Pemanfaatan Hasil Samping Industri Biodiesel dan Industri Etanol Serta Peluang Pengembangan Industri Integratednya. SBRC LPPM IBP Bogor. ISBN : 978 – 9791312 – 11 – 0*.
- Woergetter, M. 1991. Pilotprojekt Biodiesel Teil 1 und @. Forshungberichte der Bundesanstalt fuer Landtechnik. Wieselburg.
- Zaffaroni, E., K. R. Kaufman, dan G.L. Pratt. 1987. Vegetable oils as substutites for diesel oil in Brazil. *Transaction of the ASAE Vol. 3 (2) : November 1987*.

Hui, Y.H. 1996. *Bailey's Industrial Oil and Fat Production Oil Seed Product*, 5th ed. 2. New York. John Wiley and Son Company.

N H, Maharani. Zuliyana. 2010. *Pembuatan Metil Ester (Biodiesel) dari Minyak Dedak dan Methanol dengan Proses Esterifikasi dan Transesterifikasi*. Universitas Diponegoro. Semarang.

Ketaren, S. 2005. *Pengantar Teknologi Minyak dan Lemak Pangan*, UI Press. Jakarta

Van Gerpen, J., Shanks, B, Pruzko, R, 2004. *Biodiesel Production Technology*, National Renewable Energy Laboratory, Collorado.

Sivasamy, Arumugam, Cheach, Kien Yoo, dkk. 2009. *Catalytic Applications in the Production of Biodiesel from Vegetable Oils*. Wiley-VCH Verlag GmbH & Co.

Satterfield, N. 1980. *Heterogeneous in Practice*. Mc Growth Company. 416

Schuchrdt, U., Secheli, RM. 1998. *Transesterification of Vegetable Oil: a review*. J Bras. Chem.Soc.9.199-210.

http://www.esdm.go.id/publikasi/statistik/handbook/doc_download/987-handbook-of-energy-a-economic-statistics-of-indonesia-2009.html

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