



DAFTAR PUSTAKA

- Airaksinen, A., 2005, Chromium Oxide Catalysts in The Dehydrogenation of Alkanes, *Dissertation*, Helsinki University of Technology, Espoo.
- Agirre, L., Guemez, M.B., Ugarte, A., Requies, J., Barrio, V.L., Cambra, J.f., and Arias, P.L., 2013, Glycerol and Acetals as Diesel Additives: Kynetic Study of The Reaction Between Glycerol and Acetaldehyde, *Fuel Process Technol.*, 116, 182-188.
- Alfarra, A., Frackowiak, E., and Beguin, F., 2004., The HSAB Concept as a Means to Interpret the Adsorption of Metal Ions onto Activated Carbons, *App. Surf. Sci.*, 228(1-4), 84-92.
- Ali, O.M., Abdullah, N.R., Mamat, R., and Abdullah, A.A., 2015, Comparrasion of The Effect of Different Alcohol Additives with Blended Fuel on Cyclic Variation In Diesel Engine, *Energy Procedia*, 75, 2357-2362.
- Aripin, 2007, Preparasi dan Karakterisasi Karbon Aktif Magnetik Nanopori, *Jurnal Fisika dan Aplikasinya*, vol.3(1).
- Augustine, R.L., 1996, *Heterogeneous Catalysis For the Synthetic Chemist*, Marcel Dekker, Inc., New York.
- Barroso-Bogeat, A., Alexandre-Franco, M., Fernandez-Gonzalez, C., and Gomez-Serrano, V., 2014, Preparation of Activated Carbon-Metal Oxide Hybrid Catalyst: Textural Characterization, *Fuel Process Technol.*, 126, 95-103.
- Bartola, A., and Boulouchos, K., 2000, Oxygenated Fuels for Particulate Emission Reduction in Heavy-Duty DI-Diesel Engines with Common-Rail Fuel Injection, *Tech. Paper*, 2000-01-2885.
- Brito, A., Borges, M. E., Arvelo, R., and Garcia, T., 1993, Catalyst Characterization Variation of Several Parameters with The Deactivation/Regeneration Cycles, *J. Catal. Appl.*, 103, 17-21.
- Bueno, A.C., Gocalves, J.A., and Gusevskaya, E.V., 2007, Palladium-Catalyzed Oxidation of Primary Alcohol: Highly Selective Direct Synthesis of Acetals, *Appl. Catal. A-Gen.*, 329, 1-6.
- Cai, L.X., Jian-Guang, Y., Wu-Gao, Z., and Zhen, H., 2014, Effect of Cetane Number Improver on Heat Release Rate and Emissions of High Speed Diesel Engine Fueled with Ethanol-Diesel Blend Fuel, *Fuel*, 83, 2013-2020.
- Cardenaz-Lopez, C., Camargo, G., Giraldo, L., and Moreno-Pirajan, J.C., 2007, Design of an Adsorbent Employing Activated Carbon Fiber to Remove Lead, *Eclat. Quimm*, 32(3).



- Celik, M., Solmaz, H., and Yuceus, H.S., 2015, Examination of The effect of Organic Based manganese Fuel Additive on Combustion and Engine Performance, *Fuel Process Technol.*, 139, 100-107.
- Dowden, D.A., 1970, *Catalytic Hand Book*, Verlag Inc., New York.
- Eskak. E., 2015, Identifikasi Pola Laminasi Tempurung Kelapa, *Dinamika Kerajinan dan Batik*, 32(2), 107-116.
- Falah, I.I., 2009, Ni/AC and Cu/AC Catalysts Preparation for n-Pentanol Conversion, *Second International Conference and Workshops on Basic and Applied Sciences (ICOWOBAS)*, Johor Bahru, Malaysia, 3-4 June 2009.
- Falah, I.I. dan Triono, 2010, Conversion of n-Pentanol and n-Butanol over Cu/AC Catalyst, *Chem. Chem. Eng.*, 4(6), USA.
- Frusteri, F., Arena, F., Bonura, G., Cannilla, C., Spadaro, L., and Blasi, O.D., 2009, Catalytic Etherification of Glycerol by tert-Butyl Alcohol to Produce Oxygenated Additives for Diesel Fuel, *Appl. Catal. A:Gen.*, 367(1-2), 77-83.
- Gomez, M.F., Arrua, L.A., and Abello, M.C., 2001, Synthesis of 1,1-Diethoxyethane from Bioethanol. Influence of Catalyst Acidity, *React. Kinet. Catal.*, 73(1), 143-149.
- Gunawan, M.L., dan Susanto, H., 2008, Dehidrasi n-butanol Menjadi Senyawa Butena Pada Katalis Molecular Sieve 13 x Dalam Reaktor Unggun Tetap, *Jurnal Teknik Kimia Indonesia*, 6(2), 642-648.
- Guo, S., Peng, J., Li, W., Yang, K., Zhang, L., Zhang, S., and Xia, H., 2009, Effect of CO₂ Activation on Porous Structures of Coconut Shell-Based Activated Carbons, *Appl. Surf. Sci.*, 255, 8443-8449.
- Harsnisch, F., Blei, I., dos Santos, T.R., Moller, M., Nigles, P., Eilts, P., and Schroder, U., 2013, From the Test-Tube to the Test Engine: Assessing the Sustainability of Prospective Liquid Biofuel Compound, *Elect. Supl. Mater.*, 1, 1-22.
- Harvey, B.G., and Meylemans, H.A., 2011, The Role of Butanol in the Development of Sustainable Fuel Technologies, *Chem. Technol. Biotechnol.*, 86, 2-9.
- Haryadi, W., Muchalal, M., and Cahyono, R.N., 2005, Preparation of Activated Carbon from Silk Cotton Wood and Coconut Shell by Pyrolysis with Ceramic Furnace, *Indones. J. Chem.*, 233, 133-139.
- He, X., and Liu, H., 2014, Efficient Synthesis of 1,1-diethoxyethane via Sequential Ethanol Reaction on Silica-Supported Copper and H-Y Zeolyte Catalyst, *Catal. Today*, 233, 133-139.
- Islamiyah, 2015, Sintesis 1,1-Dipetoksipentana dari 1-Pentanol Menggunakan Katalis Ni/Karbon Aktif, *Skripsi*, Universitas Gadjah Mada, Yogyakarta.



- Kang, M., and Lee, C., 2004, Methylene Chloride Oxidation on Oxidative Carbon Supported Chromium Oxide Catalyst, *Appl. Catal. A:Gen.*, 266, 163-172
- Kaufhold, M., and El-Chahawi, M., 1996, *Process for Preparing Acetaldehyde Diethyl Acetal*, United States Patent, 5, 527, 969.
- Kuncahyo, P., Zuhdi, M.A., Fathalah, dan Semin, 2013, Analisa Prediksi Potensi Bahan Baku Biodiesel Sebagai Suplemen Bahan Bakar Motor Diesel di Indonesia, *Teknik*, 2(1), 1-4.
- Lestari, D.W., 2011, Kajian Tentang Deaktivasi Katalis, *Prosiding Seminar Nasional Penelitian, Pendidikan, dan Penerapan MIPA*, Universitas Negeri Yogyakarta.
- Marsh, H., and Rodriguez-Reinoso, F., 2006, *Activated Carbon*, Elsevier Science and Technology Books.
- Martak, F., Onggo, D., Ismunandar, Nugraha, A., Mufti, N., Yamin, B.M., 2009, Synthesis and Characterization of a Bimetallic Oxalate-Based Magnet, *Curr. Res. Chem.*, 1, 17.
- Mustapha, I., Aisyah, S., Juliana, V., 2010, Isolasi dan Karakterisasi Senyawa Turunan Terpenoid dari Fraksi n-Heksan *Momordica charantia L.*, *J. Sains dan Tek. Kim.*, 1, 88-93.
- Nord, K.E., and Haupt, D., 2005, Reducing The Emission of Catalyst Formation Conditions for Synthesis of Carbon Nanotubes using Taguchi Method, *Appl. Surf. Sci.*, 371, 425-435.
- Nugrahaningtyas, K.D., Trisunaryanti, W., Triyono, Nuryono, Widjonarko, D.M., Yusanani, A., and Mulyani, 2009, Preparation and Characterization of The non-Sulfided Metal Catalyst: Ni/USY and NiMo/USY, *Indones. J. Chem.*, 9(2), 177-183.
- Pander, A., Hatta, A., and Futura, H., 2016, Optimization of Catalyst Formation Conditions for Synthesis of Carbon Nanotubes using Taguchi Method, *Appl. Surf. Sci.*, 371, 425-435.
- Pescok, R.L., and McWilliam, I.G., 2007, *Modern Methods of Chemical Analysis*, John Willey & Sons Inc., Canada.
- Rahaman, M., Graca, N.S., Pereira, C.S.M., and Rodrigues, A.E., 2015, Thermodynamic and Kynetic Studies for Synthesis of The Acetal (1,1-Diethoxybutane) Catalyzed by Amberlyst 47 Ion Exchange Resin, *Chem. Eng. J.*, 264, 257-267.
- Rodriguez-Reinoso, F., 2006, The Role of Carbon Materials in Heterogeneous Catalyst, *Carbon N. Y.*, 36(3), 159-175.
- Siwale, L., Kristof, L., Adam, T., Bereczky, A., Mbarawa, M., Peninger, A., and Kolesnikov, A., 2013, Combustion and Emission Characteristics of n-



Butanol/Diesel Fuel Blending a Turbo-Charged Compression Ignition Engine, *Fuel*, 107, 409-422.

Sulistiyani, E., Tamado, D.B., Wulandari, F., and Budi, E., 2015, Coconut Shell Activated Carbon as an Alternative Renewable Energy, *Kne Energy*, 2, 76-81.

Tangkuman H.D., dan Aritonang H.F., 2009, Perbandingan Kualitas Karbon Aktif yang dibuat dari Batok Kelapa Hibrida dan Batok Kelapa Dalam, *Chem Prog*, 2(1), 29-32.

Topgul, T., 2015, The Effect of MTBE Blends on Engine Performance and Exhaust Emission in a Spark Ignition Engine, *Fuel Process. Technol.*, 138, 480-489.

Utami, L.B.U., Umaningrum, D., dan Shaumi, I., 2015, Kajian Adsorpsi Mn(II) Oleh Arang Kayu Apu (*Pistia strantiotes* L.) Termodifikasi Kitosan-Glutaraldehida, *Prosiding Seminar Nasional Kimia*, 3-4 Oktober 2015, Jurusan Kimia FMIPA Universitas Negeri Surabaya, Surabaya.