

DAFTAR PUSTAKA

- Aguirre, A., Borneo, R., dan León, A.E., 2013, Properties of Triticale Protein Films and Their Relation to Plasticizing–Antiplasticizing Effects of Glycerol and Sorbitol, *Ind. Crop. Prod.*, 50, 297-303.
- Anderson, J.R., dan Boudart, M., 1984, *Catalyst Science and Technology*. Springer-verlag, Berlin.
- Anderson, R.B. dan Dawson, P.T., 1976, *Experimental Methods In Catalytic Research: Preparation and Examination of Practical Catalysis*, Academic Press, New York.
- Anisa, D., 2016, Pembuatan Katalis Co/Karbon Aktif dan Aplikasinya dalam Reaksi Dehidrasi Etanol Menjadi 1,1-dietoksietana, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Arwinsyah, D., 2010, Preparasi MCM-41, H-MCM-41, dan Ni/MCM-41 untuk Perengkahan Minyak Jagung menjadi Fraksi Biogasolin, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Atkins, P. dan Paula, J., 2010, *Physical Chemistry*, W.H. Freeman and Company, New York.
- Bacha, J., Freel, J., Gibbs, J., Gibbs, L., Hemighaus, G., Hoekman, K., Horn, J., Gibbs, A., Ingham, M., Jossens, L., Kohler, D., Lesnini, D., McGeehan, J., Nikanjam, M., Olsen, E., Organ, R., Scott, B., Sztenderowicz, S., Tiedemann, A., Walker, C., Lind, J., Jones, J., Scott, D., dan Mills, J., 2007, *Diesel Fuels Technical Review*, Chevron Products Company, California.
- Capecetti, M.R., Balzano, L., de la Puente, G., Laborde, M., dan Sedran, U., 2000, Synthesis of acetal (1,1-diethoxyethane) from ethanol and acetaldehyde over acidic catalysts, *Appl. Catal. A.*, 198, 1-2.
- Cervený, L., 1986, Studies in Surface Science and Catalytic Hydrogenation, *Els. Sci. Publ.*, 27, 411.
- Chen, C., Zhao, P., Huang, Y., Tong, Z., dan Li, Z., 2013, Preparation and Characterization of Activated Carbon from Eucalyptus Sawdust I. Activated by NaOH, *J. Inorg. Organomet. Polym.*, 23, 1201-1209 .
- Daud, W. dan Ali, E., 2004, Comparison on Pore Development of Activated Carbon Produced form Palm Shell and Coconut Shell, *J. Bioresour. Technol.*, 93, 63-69.

- Dodevski, V., Jankovic, B., Stomenovic, M., Krstiv, S., Popovic, J., Pagnacco, M.C., Popovic, M., dan Pasalic, S., 2017, Plane Tree Seed Biomass used for Preparation of Activated Carbon (AC) Derived from Pyrolysis Modelling the Activation Process, *Physicochem. Eng. Aspect*, 522, 83-96.
- Falah, I.I. dan Triyono, T., 2010, Conversion of n-pentanol and n-butanol over CU/AC Catalyst, *J. Chem Eng.*, 4(6), 22-28.
- Geng, P., Cao, E., Tan, Q., dan Wei, L., 2017, Effect of Alternative Fuels on The Combustion Characteristics and Emission Product from Diesel Engine : A Review, *Renew. Sustain. Energy Rev*, 71, 523-534.
- Graca, N.S., Pals, L.S., Silva, V.M.T.M., dan Rodrigues, E., 2010, Oxygenated Biofuels from Butanol for Diesel Blends: Synthesis of the Asetal 1,1-Dibutoxybutane Catalyzed by Amberlyst-15 Ion-Exchange Resin, *Ind. Eng. Chem. Res.*, 49(15), 6763-6771.
- Guerrero-Ruiz, A.A., Escribano, S., dan Ramos., I., 1992, Carbon Supported Bimetallic Catalyst Containing Iron I. Preparation and Characterization, *App. Catal.*, 81, 81-100.
- Hao, G. dan Xianlun, D., 2013, Preparation and Characterization of Activated Carbon From Palm Shell by Catalytic Activation with Steam, *AMR*, 787, 46-51.
- He, X. dan Liu, H., 2014, Efficient Synthesis of 1,1-Diethoxyethane via Sequential Ethanol Reaction of Silica-Supported Copper and H-Y Zeolite Catalyst, *Catal. Today*, 233, 133-139.
- Istadi, I., 2011, *Teknologi Katalis untuk Konversi Energi Fundamental dan Aplikasi*, Graha Ilmu, Yogyakarta.
- Juric, V. dan Zupanovic, D., 2012, Ecological Impacts of Diesel Engine Emission, *PROMET-ZAGREB*, 24, 151-160.
- Kaufold, M., dan El-Charawi, M., 1996, *Process for Preparing Acetaldehyde Diethyl Acetal*, Paten Amerika Serikat, US5527969.
- Kealey, D., dan Haines, P.J., 2002, *Analytical Chemistry*, BIOS Scientific Publisher, Oxford.
- Manzhelii, E.A., Sergeev, S.M., Petrukhin, N.V., dan Sharapa O.V., 2015, Combustion Promoters for Hydrocarbon Fuels, *Chem. Tech. Fuels. Oil.*, 51(6), 565-571.

- Marsh, H., dan Rodriguez-Reinoso, F., 2006, *Activated Carbon*, Elsevier Science & Technology Books.
- Martin-Martinez, J.M. dan Vanice, M.A., 1991, Carbon Supported Iron Catalyst; Influence of Support Porosity and Preparation Techniques on Cristalyst, *Ind. Eng. Chem. Res.*, 30, 2263-2275.
- Maryanto, D., Mulasari, S.A., dan Suryani, D., 2009, Penurunan Kadar Emisi Gas Buang Karbon Monoksida (CO) dengan Penambahan Arang Aktif pada Kendaraan Bermotor di Yogyakarta, *Jurnal KES MAS UAD*, 3, 198-204.
- Muchalal, M., 2004, Pengaruh Stereokimia Molekul Eugenol, cis-Isoeugenol dan trans-Isoeugenol pada Reaksi Hidrogenasi Katalitik, *Indones. J. Chem.*, 4(2), 99-105.
- Nasikin, M., dan Makhdiyanti, A., 2003, Sintesis Metil Ester sebagai Aditif Bahan Bakar Solar dari Minyak Sawit, *Jurnal Teknik Pomits*, 1, 45-50.
- Nord, K.E dan Haupt, D., 2005, Reducing the Emission of Particles from a Diesel Engine by Adding an Oxygenate to the Fuel, *Environ. Sci. Technol.*, 102, 6260-6255.
- Othmer, D.F., dan Kirk, R.E. 1979, "Encyclopedia of Chemical Technology", 3rd ed., Vol. 12, John Wiley and Sons Inc., New York
- Patil, A.R dan Taji, S.G., 2013, Effect of Oxygenated Fuel Additive on Diesel Engine Performance and Emission: A Review, *IOSR JMCE*, 30-35.
- Pereira, C.S.M., Silva, V.M.T.M., dan Rodrigues, A.E., 2014, Coupled PermSMBR - Process Design and Development for 1,1-Dibutoxyethane Production, *Chem.Eng. Res. Design*, 92, 11, 2017-2026.
- Ribeiro, N.M., Pinto, A.C., Quintella, C.M., da Rocha, G.O., Teixeira, L.S.G., Guarieiro, L.L.N., Rangel, M.C., Veloso, M.C.C., Rezende, M.J.C., da Cruz, R.S., de Oliveira, A.M., Torres, E.A., dan de Andrade, J.B., 2007, The Role of Additives for Diesel and Diesel Blended (Ethanol or Biodiesel) Fuels: A Review, *Energ. Fuel.*, 21, 2433-2445.
- Rodriguez-Reinoso, F., 1998, The Role of Carbon Materials In Heterogeneous Catalysis, *Carbon*, 36(3), 159-175.
- Sadiana, I.M., Falah, I.I., dan Triyono, T., 2001, Pembuatan Katalis Pt-Zeolit untuk Konversi n-Oktanol, *Indo.J.Chem.*, 1(2), 90-97.

- Santi, D., 2011, Karakterisasi dan Uji Aktivitas Katalis NiOMoO/Zeolit Alam Aktif dan NiOMoO/Zeolit Y dalam Reaksi Hidrorengkah Minyak Kulit Jambu Mete (*Anacardium occidentale*), *Thesis*, UGM, Yogyakarta.
- Sezer, I. dan Bilgin, A., 2008, Effects of Methyl tert-Butyl Ether Addition to Base Gasoline on the Performance and CO Emissions of a Spark Ignition Engine, *Energ. Fuel.*, 22(2), 1341–1348.
- Sitepu, T., 2009, Kajian Eksperimental Pengaruh Bahan Aditif Octane Booster Terhadap Nilai Kalor Bahan Bakar Solar, *Jurnal Dinamis*, II(4), 11-18.
- Sun, Y., Tao, F., Liu, L., Zeng, X., dan Wang, W., 2016, Influence of Activated-Carbon-Supported Transition Metals on The Decomposition of Polychlorobiphenyls. Part I: Catalytic Decomposition and Kinetic Analysis, *Chemosphere*, 30, 1-9.
- Trisunaryanti, W., 2015, *Material Katalis dan Karakterisasinya*, Gadjah Mada University Press, Yogyakarta.
- Velmurugan, K., dan Gowthamn, S., 2012, Effect of Cetane Improver Additives on Emissions, *IJMER*, 2(5), 3372-3375.
- Viswanathan, B., Neel, P.I., dan Varadarajan, T.K., 2009, Methods of Activation and Specific Applications of Carbon Materials, *National Centre for Catalyst Research*, Departement of Chemistry, Indian Institute of Technology Madras, Chennai.
- Widiyarti, G., dan Wuryaningsih, S.R., 2010, Pengaruh Metode Preparasi dan Kandungan Logam Aktif terhadap Aktivitas Katalis Ni/Kieselguhr, *JusamI*, 2(11), 1-5.
- Zhang, L., 2010, Optimization of Preparation of Activated Carbon from Cotton Stalk by Microwave Assited Phosporic Acid-Chemical Activation, *J. Hazard. Matter.*, 182, 217-224.