

DAFTAR PUSTAKA

- Anisa, D., 2016, Pembuatan Katalis Co/Karbon Aktif dan Aplikasinya dalam Reaksi Dehidrasi Etanol Menjadi 1,1-dietoksietana, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Atkins, P.W., 1997, *Kimia Fisika*, (diterjemahkan oleh: Kartohadiprodjo I.), Erlangga, Jakarta.
- Atkins, P., and Paula, J.D., 2010, *Physical Chemistry*, 9th Ed., 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., Sztenderowics, S., Tiedemann, A., Walker, C., Lind, J., Jones, J., Scott, D., and Milks, J., 2007, *Diesel Fuels Technical Review*, Chevron Products Company, California.
- Bledzki, A.K., Mamun, A.A., and Volk, J., 2010, Barley Husk and Coconut Shell Reinforced Polypropylene Composites: The Effect of Fiber Physical, Chemical and Surface Properties, *Compos. Sci. Technol.*, 70(5), 840-846.
- Bogeat B.A., Alaxandre F.M., Fernandez G.C., Gomez S.V., 2014, Preparation of Activated Carbon-Metal Oxide Hybrid Catalyst: Textural Characterization, *Fuel Process. Technol.* 126, 95-103.
- Bogeat B.A., Alaxandre F.M., Fernandez G.C., Gomez S.V., 2016, Activated Carbon Surface Chemistry: Changes Upon Impregnation with Al(III), Fe(III), and Zn(II)-Metal Oxide Catalyst Precursors from NO_3^- Aqueous Solutions, *Arab. J. Chem.*, 1-14.
- Budiono, A., 2009, Pengaruh Aktivasi Arang Tempurung Kelapa dengan Asam Sulfat dan Asam Fosfat Untuk Adsorpsi Fenol, *Skripsi*, Jurusan Kimia FMIPA UNDIP, Semarang.
- Bueno, A. C., Goncalves, J. A., Gusevskaya, E. V., 2007, Palladium-Catalyzed Oxidation of Primary Alcohols: Highly Selective Direct Synthesis of Acetals, *Appl. Catal., A: General* 329, 1-6.

- Cerveny, L., 1986, Studies in Surface Science and Catalytic Hydrogenation, *Els. Sci. Publ.*, 27(411), 418-419.
- Chen, C., Zhao, P., Huang, Y., Tong, Z., and Li, Z., 2013, Preparation and Characterization of Activated Carbon from Eucalyptus Sawdust I. Activated by NaOH, *J. Inorg. Organomet. Polym.*, 23, 1201-1209.
- Dasgupta, K., Singh, D.K., Anitha, M., Awasthi, A., and Singh, H., 2014, Application of Taguchi Method for Optimization of Process Parameters in Decalcification of Samarium-Cobalt Intermetallic Powder, *Sep. Purif. Technol.*, 124, 74-80.
- Falah, I.I., 2009, Ni/C and Cu/C Catalyst Preparation for n-Pentanol Conversion, *Second International Conference and Workshops on Basic and Applied Science (ICOWOBAS)*, Johor Baru.
- Falah, I. I., dan Triyono, 2010, Conversion of n-Pentanol and n-Butanol over Cu/AC Catalyst, *J. Chem. Eng.*, 4, 6, 22-28.
- Gates, B.C., 1992, *Catalytic Chemistry*, John Wiley and Sons Inc., Singapura.
- Gomez-Serrano, V., Fernandez-Gonzales, M.C., Rojas-Cervantes, M.L., Alexandre-Franco, M.F., Macias-Garcia, A., 2003, Carbonization and Demineralization of Coals: A Study by Means of FT-IR Spectroscopy, *Bull. Mater. Sci.*, 26(7), 721-732.
- Haikal, M., 2016, Pembuatan Katalis Mn/Karbon Aktif untuk Konversi 1-Butanol Menjadi 1,1-Dibutoksibutana, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Haryadi, W., Muchalal, and Cahyono, R.N., 2005, Preparation of Activated Carbon from Silk Cotton Wood and Coconut Shell by Pyrolysis with Ceramic Furnace, *Indo. J. Chem.*, 5(2), 121-124.
- Inal, F., and Senkan, S.M., 2005, Effects of Oxygenate Concentration on Species Mole Fractions In Premixed n-Heptane Flames, *Fuel*, 84(5), 495-503.
- Istadi, I., 2011, *Teknologi Katalis untuk Konversi Energi Fundamental dan Aplikasi*, Graha Ilmu, Yogyakarta.
- Kauhfold, M. dan El-Charawi, M., 1996, Process for Preparing Acetaldehyde Diethyl Acetal, *USPTO*, US5527969.

- Kealey, D., and Haines, P.J., 2002, *Analytical Chemistry*, BIOS Scientific Publishers, Oxford.
- Lestari, H.D., Subagio, Makertihartha, I., 2006, Sintesis Katalis NiMo untuk Hydrotreating Coker Nafta, *Jurnal Teknik Kimia Indonesia*, 5(1), 365-373
- Li, D., Shi, F., Pheng, J., Guo, S., and Deng, Y., 2003, Application of Functional Ionic Liquids Possessing Two Adjacent Acid Sites for Acetalization of Aldehydes, *J. Org., Chem.*, 69, 3582-3585.
- Lufasoa, M. W., Schulzeb, W.A., Mistureb, S.T., Venderahc, T.A., 2007, Crystal Structure, Magnetic and Dielectric Properties of Aurivillius-type $\text{Bi}_3\text{Fe}_{0.5}\text{Nb}_{1.5}\text{O}_9$, *J. Solid State Chem.*, 180, 2655-2660.
- Mahmudul, H.M., Hagos, F.Y., Mamat. R., Adam, A.A., Ishak, W.F.W., and Alenezi, R., 2017, Production, Characterization, and Performance of Biodiesel as an Alternative Fuel in Diesel Engines – A Review, *Renew. Sust. Energ. Rev.*, 72, 497-509.
- Marsh, Harry and Francisco R.R., 2006, *Activated Carbon*, Elsevier Science & Technology Books, Belanda.
- 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.
- Novita, S., 2013, Konversi 1-Butanol menjadi Senyawa Eter Menggunakan Katalis Cu/Karbon Aktif, *Skripsi*, Jurusan Kimia FMIPA UGM, Yogyakarta.
- Patil, A. R., dan Taji, S. G., 2011, Effect of Oxygenated Fuel Additive on Diesel Engine Performance and Emission: A Review, *IOSR-JMCE*, 30-35.
- Qu, T., Guo, W., Shen, L., Xiao, J., dan Zhao, K., 2011 Experimental Study of Biomass Pyrolysis Based on Three Major Component: Hemicellulose, Cellulose, and Lignin, *Ind. Eng. Chem. Res.*, 50, 10424-10433.
- Reynolds, J.G., and Khan, M.R., 1999, *Designing Transportation Fuels for a Cleaner Environment*, Taylor and Francis, Philadelphia.
- 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.C.J., da Cruz, R.S., de Oliveira, A.M., Torres, E.A., and 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 R.F., 1998, The Role of Carbon Materials In Heterogeneous Catalysis, *Carbon*, 36(3), 159-175.

Rofiko, H., Iriani, Y., dan Suryana, R., 2017, Pengaruh Suhu Sintering Pada Pembuatan Strontium Titanat (SrTiO_3) terhadap Konstanta Dielektrik Menggunakan Metode Co-Precipitation, *IJAP*, 1(7), 28-35.

Sadiana, I.M., Falah, I.I., Triyono, T., 2001, Pembuatan Katalis Pt-Zeolit untuk Konversi n-Oktanol, *Indo. J. Chem.*, 1(2), 90-97.

Sandler, S.R., and Karo, W., 1992, *Organic Compounds Synthesis*, Academic Press Inc, California.

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*), *Tesis*, Departemen Kimia FMIPA UGM, Yogyakarta.

Sezer, I. dan Bilgin, A., 2008, Effects of Methyl tert-Buthyl Ether Addition to Base Gasoline on the Performace and CO Emissions of a Spark Ignition Engine, *Energy Fuels*, 22, 2, 1341-1348.

Shafeeyan, M.S., Daud, W.M.A.W., Houshmand, A., and Shamiri, A., 2010, A Review on Surface Modification of Activated Carbon for Carbon Dioxide Adsorption, *JAAP*, 89, 143-151.

Sheldon, R.A., and Bekkum, H.V., 2001, *Fine Chemical throufh Heterogeneous Catalysis*, Wiley-VCH, Germany.

Strand, G., 2001, *Activated Carbon for Purification of Alcohol*, Malmoe, Sweden.

Telford, J.K., 2007, A Brief Introduction to Design of Experiments, *J. of J.H. Appl. Tech. Dig.*, 27(3)

Trifoi, A.R., Agachi, P.A., and Pap, T., 2016, Glycerol Acetals and Ketals as Possible Diesel Additives. A Review of Their Synthesis Protocols, *Renew. Sust. Energ. Rev.* 62, 804-814.

Trisunaryanti, W., 2015, *Material Katalis dan Karakterisasinya*, Gadjah Mada University Press, Yogyakarta.

- Turner, J.C.R., 1981, An Introduction to the Theory of Catalytic Reactors, dalam JR. Anderson dan M. Boudart (ed), *Catalysis : Science and Technology Vol. I*, Springer-Verlag, Berlin, Heidelberg.
- Ulfa, M., 2017, Karbon Mesopori dalam Dunia Global, *JKPK*, 2(1), 54-65.
- Viswanathan, B., Neel, P.I., dan Varadarajan, T.K., 2009, Methods of Activation and Specific Applications of Carbon Materials, *National Centre for Catalyst Research*, Department of Chemistry, Indian Institute of Technology Madras, Chennai.
- Yang, R. T., 2003, *Adsorbents: Fundamentals and Application*, John Wiley and Sons, New Jersey.
- Yang, W.H., and Tang, Y. S., 1998, Optimization of Cutting Parameters for Turning Operations Based on the Taguchi Method, *J. Mater. Process. Technol.* 84 (1-3), 122-129.
- Yoeswono, Triyono, dan Falah, I. I., 2016, Catalytic Activity of Mn/AC Catalyst on Direct Synthesis of 1,1-Dibutoxybutane from 1-Butanol, *AIP Conf. Proc.* 1755, 080008-1-080008-7.
- Yoeswono, 2017, Sintesis Katalis Cu, Mn, Mg-Cu, dan Mg-Mn Teremban Pada Karbon Aktif untuk Konversi 1-butanol Menjadi 1,1-dibutoksibutana, *Disertasi*, Departemen Kimia, FMIPA UGM, Yogyakarta.
- Zhang, X., Li, Y., and Hu, C., 2015, Preparation of Fe/Activated Carbon Directly from Rice Husk Pyrolytic Carbon and Its Application in Catalytic Hydroxylation of Phenol, *RSC Adv.*, 5, 4984-4992.