

## DAFTAR PUSTAKA

1. Syukri, J. Riadi, Emdeniz. Sintesis, Karakterisasi dan Uji Aktivitas Katalitik Hibrid SiO<sub>2</sub>-Mn-Co. *Skripsi Sarjana Kimia*, Universitas Andalas : Padang.2011.
2. Housecroft, E. Chaterine and Sharpe, G. Alan. 2005. *Inorganic Chemistry*, Ed kedua. England : Ashford Colour Press Ltd.
3. Hidayat, H., S. Syukri, dan Admi. Modifikasi Permukaan Silika Sebagai Material Pendukung Bagi Katalis Senyawa Kompleks Tembaga(II) Asetonitril: Sintesis dan Karakterisasi. *Skripsi Sarjana Kimia*, Universitas Andalas: Padang.2011.
4. Syukri, S., A.K, Hijazi, A, Sakthivel, Al- Hmaideen, F.E Kuhn., Heterogenization of Solvent-Ligated Copper(II) Complexes on Poly(4-vinylpyridine) for the catalytic Cyclopropanation of Olefins. *Inorganica Chimica Acta*, 2006, Vol. 360. 197.
5. Sakthivel A, Syukri, Hijazi AK, Kuhn FE: Heterogenization of [Cu (NCCH<sub>3</sub>)<sub>4</sub>] [BF<sub>4</sub>]<sub>2</sub> on Mesoporous Al-MCM-41/Al-MCM-48 and its Application as cyclopropanation catalyst. *Catal Lett*. 2006. Vol 111:43-49
6. Sakthivel A., Hijazi AK, Yeong HY, Kohler K, Nuyken O, Kuhn F: Heterogenization of A Manganese(II) Acetonitrile Complex on Al-MCM-41 and Al-MCM-48 Molecular Sieves by Ion Exchange.*Journal of Materials Chemistry*.2005, Vol 15:4441-4445.
7. Wahyuni, S., Syukri, S., Admi,A., Sintesis dan Karakterisasi Silika Mesopori secara hidrotermal; Komparasi antara Kalsinasi dan Ekstraksi pada Penghilangan Molecular Templating Agent. *Jurnal Kimia Unand*.2015
8. Syukri, Fischer CE, Hmaideen AA, Li Y, Zheng Y, Kuhn FE: Modified MCM-41 Supported Acetonitrile Ligated Copper(II) and its Catalytic activity in Cyclopropanation of olefins. *Microporous and Mesoporous Materials* . 2008. Vol 113:171-177.
9. D. W.Lee, Y. M. Park, K. Y. Lee. 2009. “*Heterogeneous Base Catalysts for Transesterification in Biodiesel Synthesis*”. Research Institute of Clean

Chemical Engineering Systems, Korea University, 1-5, Anam-dong, Sungbuk-ku, Seoul 136-701, Korea.

10. Saito, Taro. 1996. *Buku Teks Kimia AnorganikOnline*. Tokyo : Iwanami Publishing Company
11. N.K. Raman, M.T. Anderson, C.J. Brinker, Template-Based Approaches to the Preparation of Amorphous, Nanoporous Silicas, *Chem. Mater.* 8 (1996) 1682-1701.
12. A. Okabe, T. Fukushima, K. Ariga, M. Niki, T. Aida, Tetrafluoroborate Salts as Site-Selective Promoters for Sol-Gel Synthesis of Mesoporous Silica, *J. Am. Chem. Soc.* 126 (2004) 9013-9016.
13. A. Vinu, V. Murugesan, M. Hartmann, Pore Size Engineering and Mechanical Stability of the Cubic Mesoporous Molecular Sieve SBA-1, *Chem. Mater.* 15 (2003) 1385-1393.
14. C. Sanchez, G.J. Soler-Illia, A.A. De, F. Ribot, T. Lalot, C.R. Mayer, V. Cabuli, Designed Hybrid Organic-Inorganic Nanocomposites from Functional Nanobuilding Blocks, *Chem. Mater.* 13 (2001) 3061-3083.
15. P.I. Ravikovitch, S.C. O'Domhnaill, A.V. Neimark, F. Schuth, K.K. Unger, Capillary Hysteresis in Nanopores: Theoretical and Experimental Studies of Nitrogen Adsorption on MCM-41, *Langmuir* 11 (1995) 4765-4772.
16. M. Kruk, M. Jaroniec, A. Sayari, Adsorption Study of Surface and Structural Properties of MCM-41 Materials of Different, *J. Phys. Chem. B* 101 (1997) 583-589.
17. Y. Wan, D.Y. Zhao, On the Controllable Soft-Templating Approach to Mesoporous Silicates, *Chem. Rev.* 107 (2007) 2821–2860.
18. Gustafsson Hanna, Simon Isaksson, Annika Altskär, Krister Holmberg, Mesoporous silica nanoparticles with controllable morphology prepared from oil-in-water emulsions, *Journal of Colloid and Interface Science* 467 (2016) 253–260
19. Wenjie Zhu, Xitong Li , DiWu , Jie Yu , Yang Zhou, Yongming Luo, Kuixian Wei, Wenhui Ma, Synthesis of spherical mesoporous silica materials by pseudomorphic transformation of silica fume and its Pb<sup>2+</sup> removal properties, *Microporous and Mesoporous Materials*, 222 (2016) 192-20.

20. Syukri, Sakhtivel A, Sun W, Kuhn FE: *Immobilization of Ru(III) (salen) ( $PPh_3)_2$  on Mesoporous MCM-41/SBA-15: Characterization and Catalytic Application.* *Catal Lett* 2009, Vol 128:18-24.
21. Fritz E, Kühn. *Modified MCM-41-supported Acetonitrile Ligated Copper(II) and Its Catalytic Activity in Cyclopropanation of Olefins.* *Journal Elsevier Microporous and Mesoporous Materials*, 2008, vol113, 171–177
22. Pratikha, Rycce S, Syukri, Admi, *Penentuan Kondisi Optimum Aktivitas Katalitik Cu(II)-Asetonitril yang diamobilisasi pada silika modifikasi.* 2012. Skripsi. Universitas Andalas, Padang.
23. Guo,L., Yong F, Hiroyuki A., Norio T., Hierarchically structured periodic mesoporous silica by vapor phase synthesis. *Microporous and Mesoporous Materials.* 2012.162. 122-130.
24. Pal, Nabanita, and Bhaumik Asim. Soft Templating Strategies For Shynthesis Of Mesoporous Material: Inorganic, Organic-Inorganic Hybrid And Purely Organic Solids. *Advances in colloid and interface Science.* 2013. 180-190, 21-41.
25. Sari N, Syukri, Zulhadjri. 2013. Penentuan Kondisi Optimum Aktivitas Katalitik Mangan(II) Yang Digraving Pada Silika Modifikasi. *Jurnal Kimia Unand.* 2 (1):46-53
26. P. Jiang, D. Ren, D. He, W. Fu, J. Wang, M. Gu, Sep. Purif. An easily sedimentable and effective  $TiO_2$  Photocatalist for removal of dyes in water. *Technol.* 122 (2014)128–132.
27. Ortiz, H.I.M, Silva A.M, Cerdá, L.A.G, Castruita, Griselda , Mercado, Y.A.P, Hydrothermal Synthesis of Mesoporous Silica MCM-41 Using Commercial Sodium Silicate, *J. Mex. Chem. Soc.* 2013, 57(2), 73-79
28. Wan Y, Zhao D. On the controllable soft-templating approach in mesoporous silicates. *Chem Rev.* 2007;107:28 21-60.
29. Munawan A, Syukri, Emdeniz, Efendi M: Uji Pendahuluan Aktivitas Katalitik Katalis Mangan(II) yang di Amobilisasi pada Silika Modifikasi dalam Reaksi Transesterifikasi. *Jurnal Kimia Unand* 2014, 3(3) : 6-11.

30. Stuart, B. Infrared spectroscopy: Fundamentals and applications. Jhon Wiley and sons, Ltd, 2004.
31. Saliba, Sarmenio, , Patrick Ruch, Willi Volksen, Teddie P. Magbitang ,Geraud Dubois, Bruno Michel. Combined influence of pore size distribution and surface hydrophilicity on the water adsorption characteristics of micro- and mesoporous silica. *Microporous and Mesoporous Materials*. 2016, 226 : 221-228.
32. D. Zhao, G. Sheng, J. Hu, C. Chen, X. Wang, *Chem. Eng. J.* 171 (2011) 167–174.
33. Rong, Gang Ding. Adsorption Properties Studies Of The nickel Catalyst For Carbon Dioxide Reforming Of Methane. *Fuel Chemistry Division Preprint*. 2002, 47(1), 103.
34. Sari RM, Syukri, Arief S, Admi: Penentuan Kondisi Optimum aktivitas Katalitik Mn(II)-Asetonitril yang di Amobilisasi pada Silika Modifikasi untuk Reaksi Transesterifikasi. *Jurnal Kimia Unand* 2013, 2(1):59-67.
35. Ghosh Sumona, Chamundi P. Jijil, R. Nandini Devi. In situ encapsulation of ultra small ceria nanoparticles stable at high temperatures in the channels of mesoporous silica. *Microporous and Mesoporous Materials*.155 (2012) 215–219
36. L. T. Gibson. Mesosilica materials and organic pollutant adsorption: part A removal from air. *Chem Soc Rev*. 2013.