



DAFTAR PUSTAKA

- Adziima, A. F., Risanti, D. D., dan Mawarni, L. J., 2013, Sintesis Natrium Silikat dari Lumpur Lapindo sebagai Inhibitor Korosi, *Jurnal Teknik Pomits*, 2,2.
- Ahda, M., Sutarno, Kunarti, E. S., 2015, Studi Kinetika Adsorpsi Al-MCM-41 Terhadap Metilen Biru, *Jurnal, Pharmaciana*, 6(1), 15-20.
- Awad, S., 1996, *Ultrasonic Cavitation and precision Cleaning*, Precision Cleaning Magazine, Witter Publishing Co. Inc.
- Badriyah, L., 2014, Sintesis dan Karaktrisasi Katalis Berbasis Ni-MCM-41 sebagai Perengkah untuk Minyak Sawit, *Tesis*, Universitas Gadjah Mada, Yogyakarta.
- Beck, J. S., Vartuli, J. C., Roth, W. J., Leonowicz, M. E., Kresge, C. T., Scmitt, K. D., Chu, C. T. W., Olson, D. H., and Sheppard, E.W., 1992, A New Family of Mesoporous Molecular Sieves Prepared with Liquid Crystal Templates, *J. Am. Chem. Soc.*, 114(27), 10834-10843.
- Cao, J., Wu, Y., Jin, Y., Zilihan, P. and Huang, W., 2014, Response Surface Methodology Appoarch for Optimazation of removal of chromium (VI) by NH₂-MCM-41, *J. Taiwan Inst. Chem. Eng.*, 45, 860-868.
- Chen, D., Sharman, S.K., and Mudhoo, A., 2012, *Handbook on Application Ultrasound Sonochemistry for Sustainability*, CRC PRESS, New York.
- Davies, R. J., Brumm, M., Manga, M., Rubiandini, R., Swarbrick, R., dan Tingay, M., 2008, The East Java Mud Volcano (2006 to present): An Earthquake or Drilling Trigger? Earth and Planetary, *Sci. Letters*, 272, 627-638.
- Ekaputri, J.J., and Triwulan 2006, Study on Porong Mud Based Geopolymer Concrete, *2nd Asian Concrete Federation Conference*, 20-21 November, Bali.
- Fadli, A. F., Tjahjanto, R.T., dan Darjito, 2013, Ekstrasi Silika Dalam Lumpur Lapindo Menggunakan metode Kontinyu, *Kimia Stundent Jurnal*. 1. 182-187.
- Hidayat, P. A. N., 2015, Sintesis dan Karakterisasi Katalis Co/MCM-41 Berbasis Silika Lumpur Sidoarjo untuk Hidrorenggh Minyak Sawit, *Skripsi*, Universitas Gadjah Mada, Yogyakarta.



Holmes, S. M., Zholobenko, V. L., Thurstfield, A., Plaisted, R. J., Cundy, C. S., and Dwyer, J., 1998, In Situ FTIR Study of the formation of MCM-41, *J. Chem. Soc., Faraday Trans.*, 94. 2025-2032.

House, J. E., 2007, *Principles of Chemical Kinetics*, 2nd edition, Academic Press.

Hui, K. S., and Chao, C. Y. H., 2006, Synthesis of MCM-41 from coal fly ash by a green approach: Influence of Synthesis pH, *J. Hazard. Mater.*, B137, 1135-1148.

Juniawan, A., Rumhayati, B., dan Ismuyanto, B., 2013, Karakteristik Lumpur Lapindo dan Fluktasi Logam berat Pb dan Cu pada Sungai Porong dan Aloo, *Sains dan Terapan Kimia*, 7(1), 50-59.

Karimah, R., 2008, *Potensi Lumpur Lapindo sebagai Bahan Baku Tambahan Pembuatan Batu Bata*, hasil penelitian PBP, 1-13.

Khoiri, H. M., 2015, Sintesis dan karakteristik NH₂/MCM-41 Berbasis silika Lumpur Sidoarjo untuk Transesterifikasi Minyak Sawit, *Skripsi*, Jurusan Kimia FMIPA UGM, Yogyakarta.

Kresge, C. T., Leonowicz, M. E., Roth, W. J., Vartuli, J. C. and Beck, J. S., 1992, Ordered Mesoporous Molecular Sieves Synthesized by Liquid-Crystal Template Mechanism, *Nature*, 359, 710-712.

Majid, A. B., 2014, *Sintesis dan Karakterisasi MCM-41 Berbasis Silika Lumpur Lapindo Menggunakan Metode Hidrotermal dan Non-hidrotermal*, *Skripsi*, Jurusan Kimia FMIPA UGM, Yogyakarta.

Malik, J., Santoso, G., Purwoto, S., dan Bagio, H.E., 2009, *Kajian Penggunaan Lahan Untuk Pembangunan Unit Produksi Bahan Bangunan*, Badan Penelitian dan Pengembangan Provinsi Jawa Timur, Surabaya.

Misran, H., Singh, R., Begum, S., dan Yarmo, M. A., 2007, Processing of Mesoporous Silica Material (MCM-41) From Coal Fly Ash, *J. Mat. Pro. Tec.*, 186, 8-13.

Mubarok, M. A. S. A., 2013, Sintesis and Karakterisasi Mordenit dari Lumpur Lapindo dengan Variasi Sumber Alumina, *Skripsi*, Jurusan Kimia FMIPA UGM, Yogyakarta.

Nayak, J. T., 2010, Preparation and Characterization of Bioactive Silica-Based Ceramics Derived from Rice Husk Ash, *Thesis of Doctor of Philosophy*, Departement of Ceramics Engineering National Institute of Technology, Rourkela.



Okoronkwok,E. A., Imosili, P. E., and Olusunle, S. O. O., 2013, Extraction and Characterization of Amorphous Silica From Corn Cob Ash by Sol-Gel Method, *J. Chem. Mater. Res.*,3, 68-72.

Olawale, Olamide, Oyawale, F. A., 2012, Characterization of Rice husk Via Atomic Absorbtion Spectrophotometer for Optimal Silica Production, *Inter. J. Sci. Tech.*, 2, 210-213

Scoot, R. P. W., 1993, *Silica Gel and Bonded Phases*, John Wiley and Sons Limited, Chichester.

Selvam, P., Bhatia,S. K., and Sonwane, C. G., 2001, Recent Advances in Processing and Characterization of Periodic Mesoporous MCM-41 Silicate Molecular Sieves, *J. Ind. Eng. Chem. Res.*, 40, 3237-3261.

Setyowati, E. W. 2009, The Use of Lapindo Mud Mixture Toward the Quality of Ceramic Roff, *Dinamika Teknik SIPIL*, 9(1), 67 – 75.

Shan,F., Liu, H., Sun, J., Liu, B., Wang, C., Guan, J., and Kan, Q., 2011, Synthesis, Characterization and Catalytic Application of Bifunctional Catalyst: Al-MCM-41-NH₂, *Catal. Commun.* 12, 739-743.

Sutarno, Arryanto, Y., dan Wigati, S., 2003, Pengaruh Rasio mol Si/Al Larutan Prekursor pada Karakter struktur MCM-41 dari Abu Layang, *Indones. J. Chem.*, 3(2), 126-134.

Suyanta and Kuncaka, A., 2011, Utilization of Rice Husk as raw Material in Synthesis of Mesoporous Silicat MCM-41, *Indones. J. Chem.* 11(3), 279-284.

Sun,Y., Lin, W., Chen, J., Yue, Y., and Pang, W., 1997, New Routes for Synthesizing Mesoporous Material, *Stud. Surf. Sci. Cata.* 105, 77-84.

Tai,X. M., Wang, H. X., and Shi, X. Q., 2005, A Novel Method for the Synthesis of Mesoporous Molecular Sieve MCM-41, *Chin. Chem. Left.* 16, 843-845.

Tang,X., Liu,S., Wang,Y., Huang, W., Sominski, E., Palchik, O., Kotylin, Y., and Gedanken, A., 2000, Rapid Synthesis of High Quality MCM-41 Silica. With Itrasond Radiation, *J. Chem. Soc. Chem. Commun.*, 2119-2120.

Vitrivel, S., Chen, C-T., and Kao, H-M., 2010, The Ultrafast Sonochemical Synthesis of Mesoporois Silica MCM-41, *New J. Chem.*.. 34, 2109-2112.

Wibowo, D. Yunita, L., Anggorowati, A. A., dan Ismadji, S. 2004, Sintesa Nanoporous Material MCM-41, *Jurnal Teknik Kimia Indonesia*, 3 (2), 105-110.



Wu,H. Y., X. L., Yang, C. Y., Chen, X. And Zheng,X. C., 2013, Alkali-Hydrothermal Synthesis and Characterization of W-MCM-41 Mesoporous Materials with Various Si/W Molar Ratio, *Appl. Surf. Sci.*, 270, 590-595.

Yilmaz,M. S., Ozdemir, O. D., and Piskin, S. 2013, Synthesis and Characterization of MCM-41 with Different Methods and Adsorbtion of Sr^{2+} on MCM-41, *Res. Chem. Intermed.*

Zhang, Y., Dube, M., A., Mclean, D., D., and Kates, M., 2003, Biodiesel Production from Waste Cooking Oil : Economic Assessment and Sensitivity Analysis, *Bioresour, Technol*, 90, 229-249

Zhao, X. Y., Lu, G. Q., and Millar, G. J., 1996, Advances in Mesoporous Molecular Sieve MCM-41, *Ind. Eng. Chem. Res.*, 35(7), 2075.