

## 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, Pharmacia, vol. 6, No.1, 2016: 15-20.
- Awad, S., 1996, *Ultrasonic Cavitation and precision Cleaning*, Precision Cleaning Magazine, Witter Publishing Co. Inc.
- Badriyah, L., 2014, *Sintesis dan Karakterisasi 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 Approach for Optimazation of removal of chromium (VI) by NH<sub>2</sub>-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*, 2<sup>nd</sup> 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 Student Jurnal*. 1. 182-187.
- Hidayat, P. A. N., 2015, *Sintesis dan Karakterisasi Katalis Co/MCM-41 Berbasis Silika Lumpur Sidoarjo untuk Hidrorengk 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, *Principes of Chemical Kinetics*, 2<sup>nd</sup> 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 NH<sub>2</sub>/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 Absorption Spectrophotometer for Optimal Silica Production*, Inter. J. Sci. Tech., 2, 210-213
- Scout, 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-NH<sub>2</sub>*, 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. Lett., 16, 843-845.
- Tang, X., Liu, S., Wang, Y., Huang, W., Sominski, E., Palchik, O., Kotlypin, 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 Mesoporous 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 Adsorption of Sr<sup>2+</sup> 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.