

REFERENCES

- Beck, J.S., Vartuli, J.C., Roth, W.J., Lenowicz, M.E., Kresge, C.T., Schmitt K.D., Chuct, T.W., Oldson, D.H., McCullent, S.B. Sheppard, E.W., Higgins, J.W., and Schlenker, J.L. (1992) A new family of mesoporous molecular sieves prepared with liquid crystal templates. Journal of American Chemical Society, 114, 10834-10843.
- Bernard J.R., in: L.V.C. Rees (Ed.), Proceedings of the 5th International Zeolite Conference, Heyden, London, 686-708.
- Davis, R.J. (1993) Aromatization on zeolite-L support Pt clusters. HCR Concise Review, 41-53.
- Derouane, E.G. and Vanderveken, D.J. (1988) Structural recognition and preorganization in zeolite: direct aromatization of *n*-hexane on L-zeolite. Applied Catalysis, 45, L15-L22.
- Gusev, V., Feng, X., Bu, Z., and Haller, G. (1996). Journal of Physical Chemistry, 100, 1985-1987.
- Jacobs, G., Ghadiali, F., Pisanu, A., Borgna, A., Alvarez, W.E., and Resasco, D.E. (1999) Characterization of the morphology of Pt clusters incorporated in a KL zeolite by vapor phase and incipient wetness impregnation: Influence of Pt particle morphology on aromatization activity and deactivation. Applied Catalysis A: General, 188, 79-98.
- Jacobs, G., Alvarez, W.E., and Resasco, D.E. (2001) Study of preparation parameters of powder and palletized Pt/KL catalysts for *n*-hexane aromatization. Applied Catalysis B: General, 206, 267-282.
- Jang, J.H., Kim, D.J., Kim D.J., Kam M. and Choung S.J. (2005) Characterization of Pt-impregnated MCM-41 and MCM-48 and their catalytic performances in selective catalytic reduction for NO_x. Applied Catalysis A: General, 286, 36-43.
- Jongpatiwut, S. (2002) *n*-Alkanes aromatization over Pt-containing zeolite catalyst. Ph.D. Thesis in Petrochemical Technology, The Petroleum and Petrochemical College, Chulalongkorn University.

- Jongpatiwut, S., Osuwan, S., Rirksomboon, T., and Resasco, D.E. (2003) *n*-Octane aromatization on a Pt/KL catalyst prepared by vapor-phase impregnation. Journal of Catalysis, 218, 1-11.
- Jongpatiwut, S., Trakarnroek, S., Osuwan, S., Rirksomboon, T., and Resasco, D.E. (2005) *n*-Octane aromatization on a Pt-containing non-acidic large pore zeolite catalysts. Catalysis Letters, 100, 7-15.
- Kim, D.S., Chang, J.S., Kim, W.S., and Park, S.E. (1998) Synthesis of MCM-41 using microwave heating with ethylene glycol. Catalysis Today, 44, 301-308.
- Ko, Y.S. and Ahn, W.S. (1999) Synthesis and characterization of zeolite L. Bulletin of the Korean Chemical Society, 20, 1-6.
- Selvam, P. and Bhatia, S.K. (2001) Recent advanced in processing and characterization of periodic mesoporous MCM-41 silicate molecular sieves. Industrial and Engineering Chemistry Research, 40, 3237-3261.
- Shen, S.T. and Kawi, S. (2003) Selective catalytic reduction of NO_x by hydrocarbon in presence of excess oxygen using Pt/MCM-41 catalyst. Applied Catalysis B: Environmental, 45, 63-76.
- Stakheev, A.Y., Shpiro, E.S., Jaeger, N.I., and Shulz-Ekloff, G. (1995) Electronic state and location of Pt metal cluster in KL zeolite: FTIR study of CO chemisorption. Catalysis Letters, 32, 147-158.
- Takuchi, A. and Schüth, F. (2005) Ordered mesoporous materials in catalysis. Microporous and Mesoporous Materials, 77, 1-45.
- Tanamura, Y., Uchida, T., Teramae, N., Kikuchi, M., Kusaba, K. and Onodera, Y. (2001) Ship-In-a-Bottle Synthesis of Copper Phthalocyanine Molecules within Mesoporous Channels of MCM-41 by a Chemical Vapor Deposition Method (CVD). Nano Letter, 1, (7), 387-390.
- Wojcieszak, R., Monteverdi, S., Mercy, M., Nowaka, I., Ziolk, M., and Bettahar, M.M. (2004) Nickel containing MCM-41 and AlMCM-41 mesoporous molecular sieves characteristics and activity in the hydrogenation of benzene Applied Catalysis A:General, 268, 241-253.
- Vartuli, J.C., Roth, W.J., Lenowicz, M.E., Kresge, C.T., Schmitt K.D., and Chuct, T.W. (1994) Effect of surfactant/ Silica molar ratio on the formation of mesoporous molecular sieves. Chemical Mater., 6, 2317-2326

Zhao, X.S., Lu, G.Q., and Millar G.J. (1996) Advances in mesoporous molecular sieve, MCM-41. Industrial and Engineering Chemistry Research, 35, 2075-2090.

CURRICULUM VITAE

Name: Mr. Thanwa Udom-piriyasak

Date of Birth: December 18, 1979

Nationality: Thai

University Education:

2000-2004* Bachelor Degree of Applied Science in Industrial Chemistry,
Faculty of Applied Science, King Mongkut's Institute of Technology North Bangkok,
Bangkok, Thailand.