



REFERENCES

- Barrer, R.M. and Villiger, H. (1969) The crystal structure of the synthetic zeolite L. Zeitschrift fur Kristallographie 128, 352-370.
- Bernard, J.R. (1980) Proceedings of 5th International Conference on Zeolite, L.V.C. Ress (Ed), Heyden, London, 686.
- Biloen, P., Duatzenberg, F.M. and Sachtler, W.M. (1977) Catalytic dehydrogenation of propane to propene over platinum and platinum gold-alloys. Journal of Catalysis. 50, 77.
- Breck, D.W. and Nancy, A. (1965) Crystalline zeolite L. US Patent 3 216 789.
- Cho, S.J. and Ryoo, R. (2004) Characterization of PtSn nanoparticles in KL zeolite and n-hexane aromatization activity. Catalysis Letters, 97(1&2), 71-75.
- Chu, P. and Dwyer, F.G. (1988) Crystallization method employing microwave radiation. US Patent 4 778 666.
- Coq, B. and Figueras, F. (1984) Conversion of methylcyclopentane on platinum-tin reforming catalysts. Journal of Catalysis, 85, 197-205.
- Davis, R.J. (1993) Aromatization on zeolite L-supported Pt clusters. HCR Concise Review, 41-53.
- Ertl, G., Knozinger, H., and Weitkamp, J. (1997) Dehydrogenation reaction. Handbook of Heterogeneous Catalysis, 4, 2140-2144.
- Gontier, S. and Tuel, A. (1996) Synthesis of titanium silicate-1 using amorphous SiO₂ as silicon source. Zeolites, 16, 184-195.
- Hincapie, B.O., Garces, L.J., Zhang, Q., Sacco, A., and Suib, S.L. (2004) Synthesis of mordenite nanocrystals. Microporous and Mesoporous Materials, 67, 19-26.
- 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 impregnation and incipient wetness impregnation. Influence of Pt particle morphology on aromatization activity and deactivation. Applied Catalysis A:General, 188, 79-98

- Jacobs, G., A.. 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 A: General, 206, 267-282.
- Jongpatiwut, S., Sackamduang, P., Rirksomboon, T. Osuwan, S., 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., Rirksomboon, T., Osuwan, S., and Resasco, D.E. (2005) n-octane aromatization on Pt-containing non-acidic large pure zeolite catalysts. Catalysis Letters, 100, Nos 1-2, 7-15.
- Ko, Y.S. and Ahn, W.S. (1999) Synthesis and characterization of zeolite L. Bulletin of the Korean Chemical Society, 20, 1-6.
- Lee, S.H. and Lee, H.I. (1994) The effect of catalyst modification on the catalytic activity in the dehydrocyclization of paraffins over Pt/ γ -Al₂O₃. Korean Journal of Chemical Engineering, 11(3), 185-189.
- Li, Q., Mihailova, B. Creaser, D., and Sterte, J. (2001) Aging effect on the nucleation and crystallization kinetics of colloidal TPA-silicalite-1. Microporous and Mesoporous Materials, 43, 51-59.
- Paal, Z., Gyory, A., Uszkurat, I., Olivier, S., Guerin, M., and Kappensteine, C. (1997) Pt/Al₂O₃ catalysts and Pt-Sn/Al₂O₃ catalysts prepared by two different methods: hydrogen pressure effects in the reactions of n-hexane. Journal of Catalysis, 168, 164-175.
- Park, M.and Komarneni, S. (1998). Rapid synthesis of AlPO₄-11 and cloverite by microwave-hydrothermal processing. Microporous and Mesoporous Material, 20, 39-44.
- Rangel, M.C., Carvaltio, L.S., Reyes, P., Parera, J.M., and Figoli, N.S. (2000) n-octane reforming over alumina-supported Pt, Pt-Sn and Pt-W catalysts. Catalysis Letters, 64, 171-178.
- Renzo, D.F. (1998). Zeolites as tailor-made catalysts: Control of the crystal size. Catalysis Today, 41, 37-40.

- Romero, M.D., Gomez, J.M., Ovejero, G. and Rodriguez, A. (2004) Synthesis of LSX zeolite by microwave heating. Material Research Bulletin, 39, 389-400.
- Ruiz, A.Z., Ban, B.T., and Calzaferri, G. (2002) Synthesis of zeolite. Tunning Size and Morphology. Monatshfte Fur Chemie, 136, 77-89.
- Shi, B and Davis, B.H. (1995) Dehydrocyclization of n-octane: H/D exchange and reversible adsorption for a Pt-Sn-SiO₂ Catalyst. Journal of Catalysis, 157, 626-630.
- Slangen, P.M., Jansen, J.C. and Bekkum, H.V. (1997) The effect of ageing on the microwave synthesis of zeolite NaA. Microporous Materials, 9, 259-265.
- Treacy, M.M.J.(1999) Pt agglomeration and entombment in single channel zeolites: Pt/LTL. Microporous and Mesoporous Materials, 28, 271-292.
- Tsapatsis, M., Lovallo, M., Okubo, T., Davis, M.E., and Sadakata, M. (1994) Characterization of zeolite L nanocluster. Chemistry of Materials, 7, 1734-1741.
- Verduijn, J.P. (1987). Improved zeolite L. European Patent Application 219 354.
- Verduijn, J.P. (1991) Zeolite L. International Patent WO 91/06367.
- Verduijn, J.P., Mertens, M.M.,and Anthonis, M. (2001) Zeolites and Processes for their manufacture. US Patent 6 258 991 B1.
- Wortel, T.M. (1985) Zeolite L with cylindrical morphology. US Patent 4 544 539.

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2. Trakarnroek, S., Jongpatiwut, S., Rirksomboon, T., Osuwan, S. and Resasco, D.E. (2006) n-Octane aromatization over Pt/KL of varying morphology and channel length. Applied Catalysis A: General, 313, 189-199.
3. Trakarnroek, S., Jongpatiwut, S., Rirksomboon, T., Osuwan, S. and Resasco, D.E. (2007) n-Octane aromatization over Pt supported on different particle sizes. Chemical Engineering Communication, 194, 946-961.
4. Trakarnroek, S., Jongpatiwut, S., Rirksomboon, T., Osuwan, S. and Resasco, D.E. n-Octane aromatization on monofunctional Pt-Sn catalysts, being prepared.

Proceedings:

1. Trakarnroek, S., Ittisanronnachai, S., Osuwan, S., Rirksomboon, T., Jongpatiwut, S., and Resasco, D.E. (2004, November 7-12) Effect of particle size of KL zeolite supporting Pt catalyst on n-octane aromatization. Proceedings of AIChE 2004 Annual Meeting, Texas, USA.
2. Trakarnroek, S., Osuwan, S., Rirksomboon, T., Jongpatiwut, S., and Resasco, D.E. (2004, December 1-3) n-octane aromatization over Pt/KL of varying zeolite crystallite morphology. Proceedings of Regional Symposium on Chemical



Engineering 2004 in conjunction with The 14th National Chemical Engineering and Applied Chemistry, Bangkok, Thailand.

3. Trakarnroek, S., Osuwan, S., Rirksomboon, T., Jongpatiwut, S., and Resasco, D.E. (2005, July 10-14) n-octane aromatization over Pt/KLof varying zeolite crystallite morphology. Proceedings of the 7th World Congress of Chemical Engineering, Glasgow, Scotland.

Presentations:

1. Trakarnroek, S., Jongpatiwut, S., Rirksomboon, T., Osuwan, S., and Resasco, D.E. (2004, April 23-25) n-Octane aromatization on Pt catalyst supported on novel zeolites prepared by MW technique. Paper presented at RJG-Ph.D. Congress V, Pattaya, Thailand.
2. Trakarnroek, S., Jongpatiwut, S., Rirksomboon, T., Osuwan, S., and Resasco, D.E. (2005, October 30-November 4) n-Octane aromatization over Pt supported on small crystal of KL zeolite. Paper presented at AIChE Annual Conference 2005, Cincinnati, OH, USA.
3. Trakarnroek, S., Jongpatiwut, S., Rirksomboon, T., Osuwan, S., and Resasco, D.E. (2005, December 14-16) Effect of pore length of Pt/KL zeolite catalyst on n-octane aromatization. Paper presented at Research Advances in Rational Design of Catalysts and Sorbents, IFP-Lyon, France.
4. Trakarnroek, S., Jongpatiwut, S., Rirksomboon, T., Osuwan, S., and Resasco, D.E. (2006, April 1) n-Octane aromatization over Pt/KL of varying morphology and channel legth. Paper presented at 51st Annual Pentasectional Meeting, Bartlesville, OK, USA.
5. Udom-piriyasak, T., Trakarnroek, S., Jongpatiwut, S., Rirksomboon, T., Osuwan, S., and Resasco, D.E. (2006, December 6-8) n-Octane aromatization over Pt-Sn/KL and Pt/MCM-41 catalysts. Paper presented at the 4th Asia Pacific Congress on Catalysis (APCAT4), Singapore.