

REFERENCES

- Aboul-Fotouh, S.M. and Aboul-Gheit, A.K. (2001) Hydroconversion of cyclohexene using platinum-containing catalysts promoted with other noble metals and chlorine and fluorine. *Applied Catalysis A: General*, 208, 55-61.
- Arribas, M.A. and Martinez, A. (2002) The influence of zeolite acidity for the coupled hydrogenation and ring opening of 1-methylnaphthalene on Pt/USY catalysts. *Applied Catalysis A: General*, 230, 203-217.
- Augusto, C.C., Ztotin, J.L., and Faro, A.C. (2001) Effect of sulfur or nitrogen poisoning on the activity and selectivity of Y-zeolite-supported Pt-Pd catalysts in the hydrogenation of tetralin. *Catalysis Letters*, 75 (2001) 25-36.
- Borgna, A., Garetto, T.F., Apesteguia, C.R., Normand, F.Le, and Moraweck, B. (1999) Sintering of Chlorinated Pt/ γ -Al₂O₃ catalyst: an in situ study by x-ray absorption spectroscopy. *Journal of Catalysis*, 186, 433-441.
- Carvalho, L.S., Pieck, C.L., Rangel, M.C., and Parera, J.M. (2004) Trimetallic naphtha reforming catalysts. I. Properties of the metal function precursors of the order of addition of the metal precursors on Pt-Re-Sn/ γ -Al₂O₃-Cl. *Applied Catalysis A: General*, 269, 91-103.
- Cooper, B.H. and Donnis, B.B.L. (1996) Review aromatic saturation of distillates: an overview. *Applied Catalysis A: General*, 137, 203-242.
- Eliche-Quesada, D., Merida-Robles, J., Maireles-Torres, P., Rodriguez-Castellon, E., Busca, G., Finocchio, E., and Jimenez-Lopez, A. (2003) Effects of preparation method and sulfur poisoning on the hydrogenation and ring opening of tetralin on NiW/zirconium-doped mesoporous silica catalysts. *Journal of Catalysis*, 220, 457-467.
- Ertl, G., Knozinger, H., and Weitkamp, J. (1997) Hydrogenation reaction. *Handbook of Heterogeneous Catalysis*, 5, 2165-2185.
- Fujikawa, T., Idei, K., Ohki, K., Mizuguchi, H., and Usui, K. (2001) Kinetic behavior of hydrogenation of aromatics in diesel fuel over silica-alumina-supported bimetallic Pt-Pd catalyst. *Applied Catalysis A: General*, 205, 71-77.

- Ghosh, A.K. and Kydd, R.A. (1985) Fluorine-Promoted Catalysts. Catalysis Review-Science and Engineering, 27(4), 539-589.
- Guillon, E., Lynch, J., Uzio, D., and Didillon, B. (2001) Characterisation of bimetallic platinum systems: application to the reduction of aromatic in presence of sulfur. Catalysis Today, 65, (2001), 201-208.
- Hedoire, C.E., Louis, C., Davidson, A., and Breysse, M. (2003) Support effect in hydrotreating catalysts: hydrogenation properties of molybdenum sulfide supported on β -zeolites of various acidities. Journal of Catalysis, 220, 433-441.
- Huang, T.C. and Kang, B.C. (1995) Kinetic study of naphthalene hydrogenation over Pt/ Al_2O_3 catalyst. Industrial and Engineering Chemistry Research, 34, 1140-1158.
- Hwang, C.P. and Yeh, C.T. (1996) Platinum-oxide species formed by oxidation of platinum crystallites supported on alumina. Journal of Molecular Catalysis, 112, 295-302.
- Jongpatiwut, S., Li, Z., Resasco, D.E., Alvarez, W.E., Sughrue E.L., and Dodwell G.W. (2004) Competitive hydrogenation of poly-aromatic hydrocarbons on sulfur-resistant bimetallic Pt-Pd catalysts. Applied Catalysis A: General, 262, 241-253.
- Kim, S.C., Park, H.H., and Lee, D.K. (2003) Pd-Pt/ Al_2O_3 bimetallic catalysts for the advanced oxidation of reactive dye solutions. Catalysis Today, 87, 52-57.
- Matsuhashi, H., Nishiyama, S., Miura, H., and Eguchi, K. (2004) Effect of preparation conditions on platinum metal dispersion and turnover frequency of several reactions over platinum-supported on alumina catalysts. Applied Catalysis A: General, 272, 329-338.
- Mazzieri, V.A., Grau, J.M., Vera, C.R., Yori, J.C., Parera, J.M., and Pieck, C.L. (2005) Role of Sn in Pt-Re-Sn/ Al_2O_3 -Cl catalysts for naphtha reforming. Catalysis Today, 107-108, 643-650.
- McVicker, G.B., Daage, M., Touvelle, M.S., Hudson, C.W., Klein, D.P., Baird, W.C., Cook, B.R., Chen, J.G., Hantzer, S., Vaughan, D.E.W., Ellis, E.S., and Feeley, O.C. (2002) Selective Ring Opening of Naphthenic Molecules. Journal of Catalysis, 210, 137-146.

- Navarro, R.M., Pawelec, B., Trejo, J.M., Mariscal, R., and Fierro, J.L.G. (2000) Hydrogenation of aromatics on sulfur-resistant PtPd bimetallic catalysts. Journal of Catalysis, 189, 184-194.
- Navarro, R.M., Alvarez-Galvan, M.C., Sanchez-Sanchez, M.C., Rosa, F., and Fierro, J.L.G. (2005) Production of hydrogen by oxidative reforming of ethanol over Pt catalysts supported on Al₂O₃ modified with Ce and La. Applied Catalysis B: Environmental, 55, 229-241.
- Olsbye, U., Wendelbo, R., and Akporiaye, D. (1997) Study of Pt/alumina catalysts preparation. Applied Catalysis A: General, 152, 127-141.
- Paulis, M., Peyrard, H., and Mario M. (2001) Influence of chlorine on the activity and stability of Pt/Al₂O₃ catalysts in the complete oxidation of toluene. Journal of Catalysis, 199, 30-40.
- Pawelec, B., Mariscal, R., Navarro, R.M., and Bokhorst, S.V. (2002) Hydrogenation of aromatics over supported Pt-Pd catalysts. Applied Catalysis A: General, 225, 223-237.
- Pawelec, B., Cano-Serrano, E., Campos-Martin, J.M., Navarro, R.M., Thomas, S., and Fierro, J.L.G. (2004) Deep aromatics hydrogenation in the presence of DBT over Au-Pd/γ-alumina catalysts. Applied Catalysis A: General, 275, 127-139.
- Qian, W., Yoda, Y., Hirai, Y., Ishihara, A., and Kabe, T. (1999) Hydrodesulfurization of dibenzothiophene and hydrogenation of phenanthrene on alumina-supported Pt and Pd catalysts. Applied Catalysis A: General, 184, 81-88.
- Rodriguez-Castellon, E., Diaz, L., Braos-Garcis, P., Merida-Robles, J., and Maireles-Torres, P. (2003) Nickel-impregnated zirconium-doped mesoporous molecular sieves as catalyst for the hydrogenation and ring-opening of tetralin. Applied Catalysis A: General, 240, 83-94.
- Rojas, S., Terreros, P., Pena, M.A., Ojeda, M., Fierro, J.I.G., Otero, A. and Carrillo, F. (2003) Hydrogenation of aromatics over supported noble metal catalysts ex organometallic complexes. Journal of Molecular Catalysis A: Chemical, 206, 299-311.

- Rousset, J.L., Stievano, L., Cadete Santos Aires, F.J., Geantet C., Renouprez, A.J., and Pellarin, M. (2001) Hydrogenation of tetralin in the presence of sulfur over γ -Al₂O₃-supported Pt, Pd, and Pd-Pt model catalysts. Journal of Catalysis, 202, 163-168.
- Satterfield, C.N. (1991) Heterogeneous Catalysis in Industrial Practice. 2nd ed. New York: McGraw-Hill.
- Song, C., Hsu, C.S., and Mochida, I. (2000) Chemistry of diesel fuels. New York: Taylor & Francis.
- Spare, A.V. and Gates B.C. (1981) Hydrogenation of Aromatic Hydrocarbons Catalyzed by Sulfided Co-Mo/Al₂O₃, Reactivities and Reaction Networks. Industrial and Engineering Chemistry Process Design and Development, 20, 68-98.
- Stanislaus, A. and Cooper, B.H. (1994) Aromatic hydrogenation catalysis: A Review. Catalysis Review-Science and Engineering, 36, 75-132.
- Weitkamp, A.W., Eley, D.D., Pines, H., and Weisz, P.B. (1968) Advances in Catalysis and Related Subjects, Vol. 18 (Academic Press, New York), pp. 1-110.
- Yasuda, H. and Yoshimura, Y. (1997) Hydrogenation of tetralin over zeolite-supported Pd-Pt catalysts in the presence of dibenzothiophene. Catalysis Letters, 46 (1997) 43-48.
- Yasuda, H., Higo, M., Yoshitomi, S., Sato, T., Imamura, M., Matsubayashi, H., Shimada, H., Nishijima, A., and Yoshimura, Y. (1997) Hydrogenation of tetralin over sulfided nickel-tungstate/alumina and nickel-molybdate/alumina catalysts. Catalysis Today, 39, 77-87.
- Yasuda, H., Kameoka, T., Sato, T., Kijima, N., and Yoshimura, Y. (1999) Sulfur-Tolerant Pd-Pt/Al₂O₃-B₂O₃ catalyst for aromatic hydrogenation. Applied Catalysis A: General, 185, L199- L201.

CURRICULUM VITAE

Name: Ms. Siridao Techapermphol

Date of Birth: October 6, 1981

Nationality: Thai

University Education:

2000-2003 Bachelor Degree of Science in Industrial Chemistry, Faculty of Applied Science, King Mongkut's Institute of Technology North Bangkok, Bangkok, Thailand

Working Experience:

2003	Position:	Student Trainee
	Company name:	United Winery and Distillery Co., Ltd.