

## REFERENCES

- Andreeva, D., Idakiev, V., Iabakova, T., and Andrew., A. Low temperature water- gas shift reaction over Au/ $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>. Journal of Catalysis 158 (1986) : 354-355.
- Armor, J. N. Environmental Catalysis. Washington, DC : American Chemical Society, 1994.
- Belton, D. N., and Schmiege, S. J., Oxidation of CO by NO over Rh (111). Journal of catalysis 144 (1993) : 9-15.
- Benitez, J. Process Engineering and Design for Air Pollution Control. New Jersey : Prentice-Hall, Inc, 1993.
- Cant, N. W., and Freddrickson, P. W. Silver and gold catalyzed reactions of carbon monoxide with nitric oxide and with oxygen. Journal of Catalysis 37 (1975) : 531-539.
- Felter, T.E., and Weinberg, W.H. Heterogeneity of silver surface used in the oxidation of carbon monoxide. Surface Science 118 (1982) : 369-386.
- Harriott. P. Diffusion effects in the preparation of impregnated catalysts. Journal of Catalysis 14 (1972) : 313-317.
- Haruta, M., Takase, T., Kobayashi, T., and Tsubota, S ., Bead-and honeycomb-type supported gold catalysts for the removal of carbon monoxide from air at room temperature. Catalytic Science and Technology volume 1 Japan : Kodansha Ltd., 1991.
- Haruta, M., Tsubota, S., Kobayashi, T., Kageyama, H., Genet, M. J., and Delmon, B. Low-temperature oxidation of CO over gold supported on TiO<sub>2</sub>,  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>, and Co<sub>3</sub>O<sub>4</sub>. Journal of Catalysis 144 (1993) : 175-192

- Haruta, M., Yamada, N., Kobayashi, T., and Iijima, S. Gold catalysts prepared by coprecipitation for low-temperature oxidation of hydrogen and of carbon monoxide. Journal of Catalysis 115 (1989) : 301-301.
- Hecker, W. C. and Bell, A.T. Reduction of NO by CO silica- supported rhodium : infrared and kinetic studies. Journal of catalysis 84 (1983) : 200-215.
- Heck, R. M., Farrauto, R. J. Catalytic Air Pollution Control Commercial Technology. New York : Van Nostrand Reinhold, 1995.
- Hay, N. E. Natural Gas Applications for Air Pollution. Control. Liburn : The Fairmont Press, Inc., 1987.
- Jen, H.W., and Gandhi, H.S. Catalytic reduction of NO by hydrogen in oxidizing atmosphere. Environmental Catalysis. (edited by John N. Armor) p. 114-139, 1993.
- Kondarides, D. I., and Verykios, X. E. Oxygen adsorption on support silver catalysts investigated by microgravimetric and transient techniques. Journal of Catalysis 143 (1993) : 481-491.
- Lawson, A. A low temperature catalytic approach to Nox control. Journal of catalysis 24 (1972) : 297-305.
- MacDonald, W.R., and Hayes, K.E. A comparative study of the rapid adsorption of oxygen by silver and gold. Journal of catalysis 18 (1970) : 115-132.
- Nieuwenbuys, B. E., Siera, J., Tanaka, K., and Hirano, Hideki. Differences in behavior of Pt, Rh, and Pt-Rh alloy surfaces toward NO reduction. Environmental Catalysis. (edited by John N. Armor) p. 114-139, 1993.
- Presland, A. E. B., Price G.L., and Trim, D.L. Partical size effect during the sintering of silver oxidation. Journal of catalysis 26 (1987) : 313-317.

- Ruckenstein, E., and Lee, S. H. The behavior of Model Ag/Al<sub>2</sub>O<sub>3</sub> catalysts in various chemical environments. Journal of Catalysis 109 (1988) : 100-119.
- Sell., N J. Industrial Pollution Control : Issues and Techniques. 2nd ed. New York : Van Nostrand Reinhold, 1992.
- Summers, J. C., and Williamson, W. B. Palladium-only catalysts for closed-loop control. Environmental Catalysis. (edited by John N. Armor) p. 94-113, 1993.
- Toreis, N., and Verykios, X. E. The oxidation of ethylene over silver-based alloy catalysts. Journal of Catalysis 108 (1987) : 161-174.
- Zhang, Xi., Walters, A. B., Vannice, M. A. NO decomposition and reduction by CH<sub>4</sub> over Sr/La<sub>2</sub>O<sub>3</sub>. Applied Catalysis B: Environment 7 (1996) : 321-336.
- Zafiris, G.S., and Gorte., R.J. Evidence for a second CO oxidation mechanism on Rh/Ceria. Journal of catalysis 143 (1993) : 86-91.
- Zhang, Y., and Stephanopoulos M. F. Catalytic decomposition of nitric oxide over promoted copper-ion-exchanged ZSM5 zeolite. Environmental Catalysis. (edited by John N. Armor), 1993.

## **CIRRICULUM VITAE**

**Name** : Ms. Jiranaree Kotchaphan

**Birthdate** : June 11, 1974

**Nationality** : Thai

**University Education** :

1991-1994 Bachelor of Engineering in Chemical Engineering  
Faculty of Engineering, Kasetsart University,  
Bangkok, Thailand