

REFERENCES

- Armor, J.N. (1999) The multiple roles for catalysis in the production of H₂. Applied Catalysis A: General, 176(2), 159-176.
- Basile, A., Paturzo, L., and Laganà, F. (2001) The partial oxidation of methane to syngas in a palladium membrane reactor : simulation and experimental studies. Catalyst Today, 67, 65-75.
- Chen, I., and Chen, F. (1990) Effect of alkali and alkaline-earth metals on the resistivity to coke formation and sintering of nickel-alumina catalysts. Ind. Eng. Chem. Res., 29, 534-539.
- Cracuin, R., and Gorte, R.J. (1999) Steam reforming of methane on CeO₂ promoted Pd and Ni catalysts. Revue Roumaine de Chimie, 44, 1085-1089.
- Demicheli, M., Duprez, C.D., Barbier, J., Ferretti, O.A., and Ponzi, E.N. (1994) Deactivation of steam reforming model catalysts by coke formation, II. Promotion with potassium and effect of water. Journal of Catalysis, 145, 437-449.
- Dick, A.L. (1996) Hydrogen production from natural gas for the fuel cell systems of tomorrow. Journal of Power Source, 61, 113-245.
- Dong, W.S., Roh, H.S., Liu, Z.W., Jun, K.W., and Park, S.E. (2001) Hydrogen production from methane reforming reactions over Ni/MgO catalyst. Bull. Korean. Chem. Res., 22(12), 1323-1327.
- Dong, W.S., Roh, H.S., Jun, K.W., Park, S.E., and Oh, Y.S. (2002) Methane reforming over Ni/Ce-ZrO₂ catalysts : effect of nickel content. Applied Catalysis A: General, 226, 63-72.
- Hegarty, M.E.S., O'Connor, A.M., and Ross, J.R.H. (1998) Syngas production from natural gas using ZrO₂-supported metals. Catalysis Today, 42, 225-232.
- 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.

- Kaspar, J., Fornasiero, P., and Graziani, M. (1999) Use of CeO₂-based oxides in the three-way catalysis. Catalysis Today, 50, 285-298.
- Ko, Y.S. and Ahn, W.S. (1999) Synthesis and characterization of zeolite L. Bulletin of the Korean Chemical Society, 20, 1-6.
- Kochloefl, K. (1997) Steam reforming, in Handbook of Heterogeneous Catalysis. Vol.4, Weinheim: Wiley-VCH.
- Lee, S. (1997) Methane and Its Derivatives. New York : Marcel Dekker.
- Leprince, P. (2001) Conversion Processes. Paris: Technip.
- Loong, C.K. and Ozawa, M. (2000) The role of rare earth dopants in nanophase zirconia catalysts for automotive emission control. Journal of Alloys and Compound, 303-304, 60-65.
- Matsumura, Y., and Makamori, T. (2004) Steam reforming of methane over nickel catalysts at low reaction temperature. Applied Catalysis A: General, 258, 107-114.
- Montoya, J.A., Romeo-Pascual, E., Gimon, C., Del-Angel, P., and Monzon, A. (2000) Methane reforming with CO₂ over Ni/ZrO₂-CeO₂ catalysts prepared by sol-gel. Catalysis Today, 63, 71-85.
- Oh, Y.S., Roh, H.S., Jun, K.W., and Baek, Y.S. (2003) A highly active catalyst, Ni/Ce-ZrO₂/θ-Al₂O₃, for on-site H₂ generation by steam methane reforming: pretreatment effect. International Journal of Hydrogen Energy, 28, 1387-1392.
- Otsuka, K., Wang, Y., and Nakamura, M. (1999) Direct conversion of methane to synthesis gas through gas-solid reaction using CeO₂-ZrO₂ solid solution at moderate temperature. Applied Catalysis A: General, 183(2), 317-324.
- Roh, H.S., Jun, K.W., Dong, W.S., Chang, J.S., Park, S.E., and Joe, Y.I. (2002) Highly active and stable Ni/Ce-ZrO₂ catalyst for H₂ production from methane. Journal of Molecular Catalyst A, 181, 137-142.
- Roh, H.S., Jun, K.W., and Park, S.E. (2003) Methane-reforming reactions over Ni/Ce-ZrO₂/θ-Al₂O₃ catalysts. Applied Catalysis A: General, 251, 275-283.
- Rostrup-Nielsen, J.R. (1984) Catalytic Steam Reforming. Berlin: Mercedes-Duck.

- Satterfield, C.N. (1991) Heterogeneous Catalysis in Industrial Practice. 2nd ed. NewYork: McGraw-Hill.
- Trimm, D.L. (1997) Coke formation and minimization during steam reforming reactions. Catalysis Today, 37, 233-238.
- Trimm, D.L. (1999) Catalysts for control of coking during steam reforming. Catalysis Today, 49, 3-10.
- Xu, H., Shi, K., Shang, Y., Zhang, Y., Xu, G., and Wei, Y. (1999) A study on the reforming of natural gas with steam, oxygen and carbon dioxide to produce syngas for methanol feedstock. Journal of Molecular Catalysis A: Chemical, 147, 41-46.
- Yamazaki, O., Tomishige, K., and Fujimoto, K. (1996) Development of highly stable nickel catalyst for methane steam reaction under low steam to carbon ratio. Applied Catalysis A: General, 136, 39-46.
- Zhang, J., Wang, Y., Ma, R., and Wu, D. Characterization of alumina-supported Ni and Ni-Pd catalysts for partial oxidation and steam reforming of hydrocarbons. Applied Catalysis A: General, 243, 251-259.

CURRICULUM VITAE

Name: Mr. Nattaphong Senathipbordee

Date of Birth: December 30, 1980

Nationality: Thai

University Education:

1998-2002 Bachelor Degree of Engineering in Chemical Engineering, Faculty of Engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.