

CURRICULUM VITAE

NAME : Miss Supawadee Namuangruk
BIRTH DATE : November 24, 1978
BIRTH PLACE : Nongbua Lamphu, Thailand
NATIONALITY : Thai
EDUCATION :
 1997 – 2001 Kasetsart University, B.Sc. (Chemistry)
 2001 – 2003 Kasetsart University, M.Sc. (Physical Chemistry)

SCHOLARSHIPS / AWARDS:

1. William Marsh Rice Fellowship, Rice University
2. Ellis K. Fields Memorial Student Award, the Division of Petroleum Chemistry in Spring Meeting 2006 of the American Chemical Society (ACS meeting).
3. The Royal Golden Jubilee Ph.D. Program, The Thailand Research Fund.
4. Postgraduate Education and Research Program in Physical Chemistry, Higher Education Development Project Fund.
5. Top score award in Physical Chemistry Division, Department of Chemistry, Faculty of Science, Kasetsart University.
6. Research Assistant Scholarship, Kasetsart University.
7. Teaching Assistant Scholarship, Kasetsart University.

PUBLICATIONS:

1. **Adsorption of ethylene, benzene, and ethylbenzene on faujasite zeolite.**
Supawan Kasuriya, Supawadee Namuangruk, Piti Treesukol, Max Tirtowidjojo, and Jumras Limtrakul. *Journal of Catalysis* 219 (2003) 320-328.
2. **Alkylation of benzene with ethylene over faujasite zeolite investigated by the ONIOM method.**
Supawadee Namuangruk, Piboon Pantu, and Jumras Limtrakul. *Journal of Catalysis* 225 (2004) 523-530.

3. Investigation of ethylene dimerization over faujasite zeolite by the ONIOM method.

Supawadee Namuangruk, Piboon Pantu, and Jumras Limtrakul.

ChemPhysChem 6 (2005) 1333-1339.

4. Oxidative dehydrogenation of propane over a nanostructured Fe-ZSM-5 catalyst for propylene production: A combined QM/MM pathway analysis.

Suwat Pabchada, Tanin Nanok, Supawadee Namuangruk, Pailin Limtrakul, and Jumras Limtrakul. *Proceeding in Division of Petroleum Chemistry* 51 (2006) 257-260.

5. Application of ONIOM calculations to study the effect of the zeolite framework on the adsorption of alkenes to ZSM-5.

Supawadee Namuangruk, Duangkamol Tantanak, and Jumras Limtrakul.

Journal of Molecular Catalysis A: Chemical 256 (2006) 113-121.

6. The theoretical investigation of propene oxide isomerization on H-ZSM-5.

Supawadee Namuangruk, Piboon Pantu, and Jumras Limtrakul, *Journal of Physical Chemistry B* 110 (2006) 25950-25957.

7. Decomposition of nitrous oxide on carbon nanotubes.

Supawadee Namuangruk, Pipat Khongpracha and Jumras Limtrakul, *Journal of Molecular Graphics and Modelling* 26 (2007) 179-186.

CONFERENCES / WORK SHOPS:**1. Reaction mechanisms of nitrous oxide decomposition on carbon nanotubes.**

Supawadee Namuangruk, Pipat Khongpracha, and Jumras Limtrakul. Abstracts of Papers, the 331st ACS National Meeting, Atlanta, GA, United States, March 26-3, 2006. (Poster Presentations)

2. Oxidative dehydrogenation of propane over a nanostructured Fe-ZSM-5 catalyst for propylene production: A combined QM/MM pathway analysis.

Suwat Pabchada, Tanin Nanok, Supawadee Namuangruk, Pailin Limtrakul, and Jumras Limtrakul. Abstracts of Papers, the 331st ACS National Meeting, Atlanta, GA, United States, March 26-3, 2006. (Oral Presentations)

3. Effect of the zeolite framework on the adsorption of alkenes to ZSM-5 zeolite: An ONIOM study.

Supawadee Namuangruk, Duangkamol Tantanak, and Jumras Limtrakul. Abstracts of Papers, the 331st ACS National Meeting, Atlanta, GA, United States, March 26-30, 2006. (Poster Presentations)

4. Nitrous oxide decomposition on carbon nanotubes.

Supawadee Namuangruk, Pipat Khongpracha, and Jumras Limtrakul. The Proceeding of 31st Congress on Science and Technology of Thailand, Technopolis, Suranaree University of Technology, Nakhon Ratchasima, Thailand, October 18 - 20, 2005. (Poster Presentations)

5. Alkylation of benzene with ethylene over faujasite zeolite: Structures and reaction mechanism.

Supawadee Namuangruk, and Jumras Limtrakul. Abstracts of Papers, the 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004. (Poster Presentations)

6. The Ethylene dimerization over faujasite zeolite investigated by the ONIOM method.

Supawadee Namuangruk, Piboon Pantu, and Jumras Limtrakul. The Proceeding of 30th Congress on Science and Technology of Thailand,

Muangtong Thani, Bangkok, Thailand, October 19 - 21, 2004. (Oral Presentation)

7. Alkylation of benzene with ethylene over faujasite zeolite investigated by ONIOM method.

Supawadee Namuangruk, and Jumras Limtrakul. Future Trends in Modeling of Nanostructured Materials Systems, Rama Garden Hotel, Bangkok, Thailand, November 9-11, 2003. (Oral Presentation)

8. Adsorption of ethylene, benzene, and ethylbenzene over faujasite zeolites investigated by the ONIOM method.

Jumras Limtrakul, Max Tirtowidjojo, Supawan Kasuriya, Supawadee Namuangruk, Piti Treesukol. Abstracts of Papers, the 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003. (Poster Presentations)

9. The alkylation of benzene with ethylene over faujasite zeolite investigated by the ONIOM method.

Supawadee Namuangruk, Piboon Pantu, and Jumras Limtrakul. The Proceeding of 29th Congress on Science and Technology of Thailand, Khonkhaen, Thailand, 2003. (Poster Presentations)

10. The adsorption of ethylene, benzene, ethylbenzene on faujasite zeolite.

Supawan Kasuriya, Supawadee Namuangruk, Wasinee Panjan, Chardchalerm Raksakoon, Karan Bobuatong, Jakkapan Sirichareonsre, Sombat Ketrat, and Jumras Limtrakul. The Proceeding of 28th Congress on Science and Technology of Thailand, Queen Sirikit National Convention Center, Bangkok, Thailand, October 24-26, 2002. (Poster Presentations)