

CURRICULUM VITAE

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University Education:

1991-1994 Bachelor of Science in Chemical Technology, Chulalongkorn University, Bangkok, Thailand

1995-1998 Master of Engineering in Chemical Engineering, Chulalongkorn University, Bangkok, Thailand

Working Experience:

1999-2003 Position: Instructor
Company name: Department of Mechanical Engineering, Faculty of Engineering, Naresuan University, Phitsanulok, Thailand

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Publications:

1. **Puangpetch, T.**, Sreethawong, T., Yoshikawa, S., and Chavadej, S. (2008), Synthesis and photocatalytic activity in methyl orange degradation of mesoporous-assembled SrTiO₃ nanocrystals prepared by sol-gel method with the aid of structure-directing surfactant. Journal of Molecular Catalysis A: Chemical, 287, 70-79.
2. **Puangpetch, T.**, Sreethawong, T., Yoshikawa, S., and Chavadej, S. (2009), Hydrogen production from photocatalytic water splitting over mesoporous-assembled SrTiO₃ nanocrystal-based photocatalysts. Journal of Molecular Catalysis A: Chemical, 312, 97-106.

3. **Puangpetch, T.**, Sreethawong, T., and Chavadej, S. (2010), Hydrogen production over metal-loaded mesoporous-assembled SrTiO₃ nanocrystal photocatalysts: effects of metal type and loading. International Journal of Hydrogen Energy, 35, 6531-6540.
4. **Puangpetch, T.**, Chavadej, S., and Sreethawong, T. (2011), Hydrogen production over Au-loaded mesoporous-assembled SrTiO₃ nanocrystal photocatalyst: effects of molecular structure and chemical properties of hole scavengers. Energy Conversion and Management, 52, 2256-2261.
5. Sreethawong, T., **Puangpetch, T.**, Chavadej, S., and Yoshikawa, S. (2007) Quantifying influence of operational parameters on photocatalytic H₂ evolution over Pt-loaded nanocrystalline mesoporous TiO₂ prepared by single-step sol-gel process with surfactant template. Journal of Power Sources, 165, 861-869.

Proceedings:

1. **Puangpetch, T.**, Sreethawong, T., and Chavadej, S. (2006, December 6-8), Mesoporous SrTiO₃ photocatalyst synthesized via surfactant-assisted templating sol-gel method and its methyl orange photodegradation activity. Proceedings of the 4th Asia Pacific Congress on Catalysis, Singapore.
2. Sreethawong, T., **Puangpetch, T.**, Chavadej, S., and Yoshikawa, S. (2006, December 6-8), Probing factors affecting photocatalytic H₂ evolution over nanocrystalline mesoporous Pt/TiO₂ prepared by single-step sol-gel process with surfactant template. Proceedings of the 4th Asia Pacific Congress on Catalysis, Singapore.
3. Sreethawong, T., **Puangpetch, T.**, Chavadej, S., and Yoshikawa, S. (2007, July 31-August 1), Photocatalytic degradation of methyl orange over nanocrystalline mesoporous SrTiO₃ photocatalyst synthesized by surfactant-assisted templating sol-gel method. Proceedings of the International Symposium in Science and Technology at Kansai University 2007 (Collaboration between ASEAN Countries in Environment and Life Science), Osaka, Japan.

Presentations:

1. **Puangpetch, T.**, Sreethawong, T., Yoshikawa, S., and Chavadej, S. (2006, November 21-23), Synthesis and photocatalytic activity in methyl orange

- degradation of mesoporous SrTiO₃ photocatalyst prepared by surfactant-assisted templating sol-gel method. Paper present at the 2nd Joint International Conference on “Sustainable Energy and Environment (SEE 2006)”, Bangkok, Thailand.
2. Sreethawong, T., **Puangpetch, T.**, and Chavadej, S. (2010, October 5-8), Single-step sol-gel synthesis and application of metal-loaded mesoporous-assembled SrTiO₃ nanocrystals for photocatalytic hydrogen production. Paper present at the 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010), Taipei, Taiwan.