Biographical Data

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Aroonsri Nuchitprasittichai, Ph.D.

Education and Qualifications:

2006 B.Sc. (*First Class Honors)* (Petrochemical Technology), King Mongkut's Institute of Technology, Ladkrabang (KMITL), Thailand
2009 M.Eng. (Chemical Engineering), The University of Tulsa, USA
2013 Ph.D. (Chemical Engineering), The University of Tulsa, USA

Present Position:

Lecturer, School of Chemical Engineering, Suranaree University of Technology.

Work Experiences:

2016 – Present Lecturer, School of Chemical Engineering, Suranaree University of Technology
2013 – 2016 Process Engineer & Productivity Specialist, Praxair (Thailand) Co., Ltd.
2012 – 2013 Research Assistant, The University of Tulsa, USA
2008 – 2011 Teaching Assistant, The University of Tulsa, USA

Recognitions and Prestige:

2013 Computers & Chemical Engineering Most Download Articles, Sept 2012 – Aug 2013
2012 – 2013 Research Assistantship, The University of Tulsa, USA
2010 – 2013 ConocoPhillips Doctoral Fellowship

Research of interest:

CO_2 capture and CO_2 treatment processes,
Simulation-based optimization

Computational skills:

Aspen HYSYS, UNISIM, GAMS

Academic Output:

International Publications:

1. **Nuchitprasittichai A**. and Cremaschi S. (2011) "Optimization of CO_2 capture process with aqueous amines using response surface methodology" *Computers & Chemical Engineering*, 35, 1521 – 1531.

2. **Nuchitprasittichai A**. and Cremaschi S. (2013) "An algorithm to determine sample sizes for optimization with artificial neural networks" *AIChE Journal*, 59, 805-812.

3. **Nuchitprasittichai A**. and Cremaschi S. (2013) "Sensitivity of amine-based CO_2 capture cost: the influences of flue gas composition and utility cost fluctuations" *International Journal of Greenhouse Gas Control*, 13, 34 – 43.

4. **Nuchitprasittichai A**. and Cremaschi S. (2013) "Optimization of CO_2 capture process with aqueous amines – a comparison of two simulation-optimization approaches" *Industrial & Engineering Chemistry Research*, 52, 10236 - 10243.

5. Fahmi I.; **Nuchitprasittichai A**.; Cremaschi S. (2014) "A new representation for modeling biomass to commodity chemicals development for chemical process industry" *Computers & Chemical Engineering*, 61, 77 – 89.

Conference Proceedings:

1. **Nuchitprasittichai A**. and Cremaschi S. (2011) " Sensitivity analysis for the optimum amine-based CO_2 capture plant: the influences of the flue gas feed composition and utility cost fluctuations" *the 86th Annual Meeting of the American Association for the advancement of Science – Southwestern and Rocky Mountain Region*, Oklahoma, USA, March 2012.

2. **Nuchitprasittichai A**. and Cremaschi S. (2011) "Optimization of CO_2 capture process with aqueous amines – a comparison of two simulation – optimization approaches" *2011 AIChE Annual Meeting*, Minneapolis, Minnesota, USA, October 16 – 21, 2011.

3. **Nuchitprasittichai A**. and Cremaschi S. (2012) "Surrogate – based optimization of CO_2 capture process with aqueous amines" *2012 AIChE Annual Meeting*, Pittsburgh, Pennsylvania, USA, October 28 – November 2, 2012.