

Name: **Marjan Shaker**

Email: marjan.shaker@nus.edu.sg

marjan.shaker@gmail.com

Phone: (+65)-93550264



Education

- **Onwards Doctoral of Philosophy**, National University of Singapore. (2011-2015 expected)
- **M.Sc., Mechanical Engineering**, in the field of Energy Systems, K.N Toosi University of Technology, Tehran, Iran. (2008 to 2010)
- **B.Sc., Mechanical Engineering**, University of Tehran, Tehran, Iran. (2003 to 2007)

Academic Achievement

- **Research Scholarship for Doctor of Philosophy** from SINGA - Singapore International Graduate Award , 2011-2015.
- **Research Scholarship for Master of Science** from Iran's ministry of education, 2008-2010.
- **Research Scholarship for Bachelor degree** from Iran's ministry of education, 2003-2007.

Research Area

Phase change Material, Nanofluid, Heat and Mass Transfer

Research Project

Novel enhanced heat transfer and stable nanostructure phase change composite for heat transfer applications.

Research project objective

To Investigate thermophysical characteristic of Phase change material with addition of nanoparticles.

Publications

- **M. Shaker**, H. Ghaedamini, A.P. Sasmito, J.C. Kurnia, S.V. Jangam, A.S. Mujumdar, Numerical Investigation of Laminar Mass Transport Enhancement in Gaseous Microreactors, submitted to *Chemical Engineering Processing: Process Intensification*, 2011.
- **M. Shaker**, H. Ghaedamini, A.S. Mujumdar, Enhanced convective mixing for gaseous microreactors, book chapter in: *Mathematical Modeling of Transport Processes*, edited by Agus P. Sasmito, Jundika C. Kurnia and Sachin V. Jangam, Singapore, 2011, ISBN: 978-981-08-9179-4.

Work experience

- **Mechanical Engineer** in Procurement Department of Hirbodan management Co. Tehran, Iran, Aug 2008 till Aug 2010
- **Research Assistance** in Mechanical Department of Hirbodan Management Co. Tehran, Iran, July 2006- September 2007

Skills

- **Engineering Software:** FLUENT, COMSOL, Fluid Flow, Aspen BJAC, Hint, AutoCAD, Solid Works.
- **Programming:** C++, MATLAB, FORTRAN.