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EDUCATION

- 1994-1999 Ph.D. in Chemical Engineering, École Polytechnique de Montréal, Canada,
Thesis: Solids Behaviour in Fluidized Beds
- 1989-1992 M.Sc. in Chemical Engineering, University of Tehran, Tehran, Iran
- 1984-1989 B.Sc. in Chemical Engineering, University of Tehran, Tehran, Iran

WORKING EXPERIENCES

- 2009- Professor, School of Chemical Engineering, University of Tehran
- 2010-2013 Chair, School of Chemical Engineering, University of Tehran
- 2005-2008 Associate Professor, School of Chemical Engineering, University of Tehran
- 2000-2004 Assistant Professor, School of Chemical Engineering, University of Tehran

AWARDS

- 2013 Distinguished Researcher, University of Tehran
- 2015 International Award, University of Tehran

PUBLICATIONS

Books

- Coupled CFD-DEM Modeling: Formulation, Implementation and Applications to Multiphase Flows, H. R. Norouzi, R. Zarghami, R. Sotudeh-Gharebagh, **N. Mostoufi**, Wiley, March 2016.
- Numerical Methods for Chemical Engineers with MATLAB Applications, A. Constantinides, **N. Mostoufi**, Prentice Hall PTR, April 1999.

Journals

- Chemical Product and Process Modeling (CPPM), Editors: R. Sotudeh-Gharebagh, **N. Mostoufi**, J. Chaouki, <http://www.bepress.com/cppm>.
- Journal of Faculty of Engineering (JFE), Editor-in-Chief: **N. Mostoufi** (2008-2010), <http://jfe.ut.ac.ir>.

Selected Journal Papers

- An improved model for determining fractal structure of nano-agglomerates, A. A. Esmailpour, R. Zarghami, **N. Mostoufi**, *Canadian Journal of Chemical Engineering*, vol. 93, p. 1753-1759, 2015.
- Numerical comparison of gas-liquid bubble columns and gas-solid fluidized beds, M. Abbasi, J. R. Grace, R. Sotudeh-Gharebagh, R. Zarghami, **N. Mostoufi**, *Canadian Journal of Chemical Engineering*, vol. 93, p. 1838-1848, 2015.
- Early detection of agglomeration in a polyethylene fluidized bed at high temperature and pressure by vibration signature analysis, F. Alamolhoda, A. Shamiri, M. A. Hussain, R. Sotudeh-Gharebagh, **N. Mostoufi**, *Chemical Engineering Research and Design*, vol. 104, p. 156-163, 2015.

- Insights into the granular flow in rotating drums, H. R. Norouzi, R. Zarghami, **N. Mostoufi**, *Chemical Engineering Research and Design*, vol. 102, p. 12-25, 2015.
- Modified two-phase model with hybrid control for gas phase propylene copolymerization in fluidized bed reactors, A. Shamiri, S. W. Wong, M. F. Zani, M. A. Hussain, **N. Mostoufi**, *Chemical Engineering Journal*, vol. 264, p. 706-719, 2015.
- Characterization of fluidized beds hydrodynamics by recurrence quantification analysis and wavelet transform, M. Tahmasebpour, R. Zarghami, R. Sotudeh-Gharebagh, **N. Mostoufi**, *International Journal of Multiphase Flow*, vol. 69, p. 31-41, 2015.
- Flow structure characterization in conical spouted beds using pressure fluctuation signals, **N. Mostoufi**, G. Kulah, M. Koksai, *Powder Technology*, vol. 269, p. 392-400, 2015.
- Characterization of nanoparticles bubbling fluidization, M. R. Tamadondar, R. Zarghami, M. Tahmasebpour, **N. Mostoufi**, *Particuology*, vol. 16, p. 75-83, 2014.
- Effect of temperature on fluidization regimes, M. J. Hagh-Shenas-Lari, **N. Mostoufi**, *Chemical Engineering and Technology*, vol. 37, p. 1593-1599, 2014
- Investigating agglomeration phenomena in an air-polyethylene fluidized bed using DEM-CFD approach, Z. Mansourpour, **N. Mostoufi**, R. Sotudeh-Gharebagh, *Chemical Engineering Research and Design*, vol. 92, p. 102-118, 2014.
- Comprehensive study of regime transitions throughout a bubble column using resistivity probe, M. Shiea, **N. Mostoufi**, R. Sotudeh-Gharebagh, *Chemical Engineering Science*, vol. 100, p. 15-22, 2013.
- Numerical investigation of effect of electrostatic forces on the hydrodynamics of gas-solid fluidized beds, M. A. Hassani, R. Zarghami, H. R. Norouzi, **N. Mostoufi**, *Powder Technology*, vol. 246, p. 16-25, 2013.
- Experimental investigation on the hydrodynamics of a gas-liquid-solid fluidized bed using vibration signature and pressure fluctuation analyses, A. Sheikhi, R. Sotudeh-Gharebagh, **N. Mostoufi**, R. Zarghami, *International Journal of Heat and Fluid Flow*, vol. 42, p. 190-199, 2013
- The role of the hydrogen bond in dense nanoparticle-gas suspensions, M. Tahmasebpour, L. de Martín, M. Talebi, **N. Mostoufi**, R. van Ommen, *Physical Chemistry Chemical Physics*, vol. 15, p. 5788-5793, 2013.
- Hydrodynamics of a gas-solid fluidized bed at elevated temperatures using the radioactive particle tracking technique, S. Sanaei, **N. Mostoufi**, R. Radmanesh, R. Sotudeh-Gharebagh, J. Chaouki, *Iranian Journal of Chemistry and Chemical Engineering*, vol. 31, p. 65-70, 2012.
- A new method for validation of a CFD-DEM model of gas-solid fluidized bed, M. Karimi, **N. Mostoufi**, R. Zarghami, R. Sotudeh-Gharebagh, *International Journal of Multiphase Flow*, vol. 47, p. 133-140, 2012.
- Characterization of regime transition in fluidized beds at high velocities by analysis of vibration signals, H. Azizpour, R. Sotudeh-Gharebagh, **N. Mostoufi**, R. Zarghami, *Industrial and Engineering Chemistry Research*, vol. 51, p. 2855-2863, 2012.
- Non-intrusive characterization of fluidized bed hydrodynamics using vibration signature analysis, M. Abbasi, R. Sotudeh-Gharebagh, **N. Mostoufi**, R. Zarghami, M. J. Mahjoob, *AIChE Journal*, vol. 56, p. 597-603, 2010.
- Determination of hydrodynamic behavior of gas-solid fluidized beds using statistical analysis of acoustic emissions, N. Salehi-Nik, R. Sotudeh-Gharebagh, **N. Mostoufi**, R. Zarghami, M. J. Mahjoob, *International Journal of Multiphase Flow*, vol. 35, p. 1011-1016, 2009.