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EDUCATION

- 1994-1999 Ph.D. in Chemical Engineering
École Polytechnique de Montréal, Montreal, Canada
Thesis subject: 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-present Professor
Department of Chemical Engineering, University of Tehran
- 2005-2008 Associate Professor
Department of Chemical Engineering, University of Tehran
- 2000-2004 Assistant Professor
Department of Chemical Engineering, University of Tehran
- 6/2002-8/2004 Consultant (Process Design)
Oil Industries Engineering and Construction Co.
Revamping of FCC Unit, Abadan Refinery
- 9/2000-8/2001 Senior Process Engineer
Zolal Iran Co.
- 1/2000-6/2000 Post-Doc Researcher
École Polytechnique de Montréal
- 1989 - 1994 Process Engineer (Last position: Head of Process Engineering)
Chagalesh Consulting Engineers, Tehran, Iran

INDUSTRIAL PROJECTS

1. Feasibility study on control and recovery of volatile organic compounds (VOC) from crude oil storage tank in Kharg oil terminal, Iranian Oil Terminals Co.
2. Feasibility Study of production of hollow spherical granular powder, Nasooz Poosheh Isfahan Co.

3. Investigating the fluidability of the catalyst used in FCC unit, Abadan Oil Refining Co.
4. Monitoring the quality of fluidization in fluidized beds, Petrochemical Research and Technology Co.
5. Developing the operator training simulator for olefin plant, Marun Petrochemical Co.
6. Developing the operator training simulator for methanol synthesis plant, Zagross Petrochemical Co.
7. Developing the operator training simulator for methanol synthesis plant, Fanavaran Petrochemical Co.
8. Developing the operator training simulator for butadiene extraction plant, Amirkabir Petrochemical Co.
9. Design and construction of a cold fluidized bed for studying the hydrodynamics of polyethylene reactors, Petrochemical Research and Technology Co.
10. Static and dynamic simulation of the synthesis section of urea production plant, Khorasan Petrochemical Co.
11. Simulation of fluidized bed reactor of polyethylene production, Tabriz Petrochemical Co.

PUBLICATIONS

Books

Numerical Methods for Chemical Engineers with MATLAB Applications, A. Constantinides and **N. Mostoufi**, Prentice Hall PTR, April 1999.

Solutions Manual to Numerical Methods for Chemical Engineers with MATLAB Applications, A. Constantinides and **N. Mostoufi**, Prentice Hall PTR, July 1999.

Process Simulation Using HYSYS, R. Sotudeh-Gharebagh and **N. Mostoufi**, Boshra Publishing Co., Winter 2005.

Steady State Process Simulation Using HYSYS, R. Sotudeh-Gharebagh, **N. Mostoufi**, A. Kiashemshaki, Boshra Publishing Co., Winter 2006.

Journals

Chemical Product and Process Modeling, Editors: R. Sotudeh-Gharebagh, **N. Mostoufi**, J. Chaouki, <http://www.bepress.com/cppm>.

Refereed Papers

74. Effect of bed diameter on the hydrodynamics of gas-solid fluidized beds, H. Bashiri, **N. Mostoufi**, R. Radmanesh, R. Sotudeh-Gharebagh, J. Chaouki, **accepted in** *Iranian Journal of Chemistry and Chemical Engineering*, 2010.
73. Sequential modeling of fluidized bed paddy dryer, N. Bizmark, **N. Mostoufi**, R. Sotudeh-Gharebagh, H. Ehsani, **accepted in** *Journal of Food Engineering*, 2010.
72. CFD-DEM study of temperature and concentration distribution in a polyethylene fluidized bed reactor, S. Karimi, Z. Mansourpour, **N. Mostoufi**, R. Sotudeh-Gharebagh, **accepted in** *Particulate Science and Technology*, 2010.
71. Insights in hydrodynamics of bubbling fluidized beds at elevated pressure by DEM-CFD approach, Z. Mansourpour, S. Karimi, R. Zarghami, **N. Mostoufi**, R. Sotudeh-Gharebagh, **accepted in** *Particulate Science and Technology*, 2010.
70. Kinetic modeling of propylene homopolymerization in a gas-phase fluidized-bed reactor, A. Shamiri, M. A. Hussain, F. S. Mjalli, **N. Mostoufi**, vol. 161, p. 240-249, *Chemical Engineering Journal*, 2010.
69. Investigating the synergistic effect of D2EHPA and Cyanex 302 on separation of zinc and manganese, T. Hosseini, F. Rashchi, E. Vahidi, **N. Mostoufi**, vol. 45, p. 1158-1164, *Separation Science and Technology*, 2010.
68. Effect of surface contaminants on oxygen transfer in bubble columns, M. Asgharpour, M. R. Mehrnia, **N. Mostoufi**, *Biochemical Engineering Journal*, vol. 49, p. 351-360, 2010.
67. Leaching of vanadium from LD converter slag using sulfuric acid, M. Aarabi-Karagani, F. Rashchi, **N. Mostoufi**, E. Vahidi, *Hydrometallurgy*, vol. 102, p. 14-21, 2010.
66. Dynamic modeling of the sugar extraction process from sugar beet, **N. Mostoufi**, A. Faridkhou, R. Sotudeh-Gharebagh, H. R. Norouzi, *Food Manufacturing Efficiency*, vol. 3, p. 49-56, 2010.
65. Prediction of the maximum heat transfer coefficient between a horizontal tube and gas-solid fluidized beds, N. Masoumifard, **N. Mostoufi**, R. Sotudeh-Gharebagh, *Heat Transfer Engineering*, vol. 31, p. 870-879, 2010.
64. 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.

63. Hydrodynamic characteristics of gas-solid fluidization at high temperature, S. Sanaei, **N. Mostoufi**, R. Radmanesh, R. Sotudeh-Gharebagh, C. Guy, J. Chaouki, *Canadian Journal of Chemical Engineering*, vol. 88, p. 1-11, 2010.
62. Flow characteristics in an airlift membrane bioreactor, A. H. Khalili, M. R. Mehrnia, **N. Mostoufi**, M. H. Sarrafzadeh, *Chemical Product and Process Modeling*, vol. 4, iss. 5 (Special Issue - WCCE8 2009), Article 18, 2009, <http://www.bepress.com/cppm/vol4/iss5/18>.
61. Modeling and optimization of the sugar extraction process, R. Sotudeh-Gharebagh, H. Shamekhi, **N. Mostoufi**, H. R. Norouzi, *International Journal of Food Engineering*, vol. 5, iss. 4, Article 13, 2009, <http://www.bepress.com/ijfe/vol5/iss4/art13>.
60. Non-intrusive monitoring of bubbles in a gas-solid fluidized bed using vibration signature analysis, M. Abbasi, R. Sotudeh-Gharebagh, **N. Mostoufi**, M. J. Mahjoob, *Powder Technology*, vol. 196, p. 278-285, 2009.
59. 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.
58. Effect of geometry of the plenum chamber on gas distribution in a fluidized bed, A. Mohammadkhah, **N. Mostoufi**, *Industrial and Engineering Chemistry Research*, vol. 48, p. 7624-7630, 2009.
57. A shrinking particle - shrinking core model for leaching of a zinc ore containing silica, V. Safari, G. Arzpeyma, F. Rashchi, **N. Mostoufi**, *International Journal of Mineral Processing*, vol. 93, p. 79-83, 2009.
56. Modeling of stagewise feeding in fluidized bed reactor of oxidative coupling of methane, M. Daneshpayeh, **N. Mostoufi**, A. A. Khodadadi, R. Sotudeh-Gharebagh, Y. Mortazavi, *Energy and Fuels*, vol. 23, p. 3745-3752, 2009.
55. Probabilistic approach to particle-wall contact time in fluidized beds, R. Zarghami, **N. Mostoufi**, R. Sotudeh-Gharebagh, *Journal of Heat Transfer*, vol. 131, 094503 (3 pages), 2009.
54. Clusters identification and characterization in a gas-solid fluidized bed by the wavelet analysis, F. Afsahi, R. Sotudeh-Gharebagh, **N. Mostoufi**, *Canadian Journal of Chemical Engineering*, vol. 87, p. 375-385, 2009.
53. Unsteady- state modeling of the fluidized bed polyethylene reactor, A. Hasimi, **N. Mostoufi**, R. Sotudeh-Gharebagh, *Iranian Journal of Chemical Engineering*, vol. 6, p. 23-39, 2009.

52. Kinetic modeling of oxidative coupling of methane over Mn/Na₂WO₄/SiO₂ catalyst, M. Daneshpayeh, A. A. Khodadadi, **N. Mostoufi**, Y. Mortazavi, R. Sotudeh-Gharebagh, A. R. Talebizadeh, *Fuel Processing Technology*, vol. 90, p. 403-410, 2009. Corrigendum: vol. 90, p. 1192, 2009.
51. Dynamic optimization of the benzene extractive distillation unit, A. Ghaee, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Brazilian Journal of Chemical Engineering*, vol. 25, p. 765-776, 2008.
50. Nonlinear characterisation of pressure fluctuations in fluidized beds, R. Zarghami, **N. Mostoufi**, R. Sotudeh-Gharebagh, *Industrial and Engineering Chemistry Research*, vol. 47, p. 9497-9507, 2008.
49. Bubble size distribution in oil-based bubble columns, S. Homayouni, M. R. Mehrnia, **N. Mostoufi**, M. Rajabi, A. Yazdani, *Chemical Engineering and Technology*, vol. 31, p. 1668-1675, 2008.
48. Investigation of heat transfer between a horizontal tube and gas-solid fluidized bed, N. Masoumifard, **N. Mostoufi**, A. A. Hamidi, R. Sotudeh-Gharebagh, *International Journal of Heat and Fluid Flow*, vol. 29, p. 1504-1511, 2008.
47. Modeling of the fully developed zone in the riser of circulating fluidized beds, Y. Khalighi, R. Sotudeh-Gharebagh, **N. Mostoufi**, *Industrial and Engineering Chemistry Research*, vol. 47, p. 5906-5912, 2008.
46. Effect of feed specifications on an industrial autothermal reformer performance and its optimization using genetic algorithm (in Persian), M. Hamdi-Gamchi, R. Sotudeh-Gharebagh, **N. Mostoufi** and F. Jalali-Farahani, *Amirkabir Journal of Science and Technology*, vol. 19, p. 29-37, 2008.
45. Particle size distribution in gas-phase polyethylene reactors, O. Ashrafi, H. Nazari-Pouya, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Advanced Powder Technology*, vol. 19, p. 311-320, 2008.
44. Influence of hydrodynamic models on dynamic response of the fluidized bed polyethylene reactor, A. Sarvaramini, **N. Mostoufi**, R. Sotudeh-Gharebagh, *International Journal of Chemical Reactor Engineering*, vol. 6, A55, 2008, <http://www.bepress.com/ijcre/vol6/A55/>.
43. Modeling hydrogenation reactor of Soya bean oil (in Persian), R. Sotudeh-Gharebagh, L. Niknam, **N. Mostoufi**, *Journal of Faculty of Engineering*, vol. 42, p. 165-170, 2008.

42. Two-phase sequential simulation of a fluidized bed reformer, R. Habibi, S. Hajizadeh, R. Sotudeh-Gharebagh, **N. Mostoufi**, *Chemical Engineering and Technology*, vol. 31, p. 984–989, 2008.
41. A hybrid GA-SQP optimization technique for determination of kinetic parameters of hydrogenation reactions, B. Mansoornejad, **N. Mostoufi** and F. Jalali-Farahani, *Computers and Chemical Engineering*, vol. 32, p. 1447-1455, 2008.
40. Dynamic optimization using a hybrid GA-SQP technique, B. Mansoornejad, **N. Mostoufi**, F. Jalali-Farahani, *Chemical Product and Process Modeling*, vol. 2, iss. 3, Article 30, 2007, <http://www.bepress.com/cppm/vol2/iss3/30>.
39. Sequential simulation of a fluidized bed membrane reactor for the steam methane reforming using ASPEN PLUS, A. Sarvar-Amini, R. Sotudeh-Gharebagh, H. Bashiri, **N. Mostoufi** and A. Haghtalab, *Energy and Fuels*, vol. 21, p. 3593-3598, 2007.
38. Optimization of radial flow reactors of styrene production, F. Abdolahi, **N. Mostoufi** and R. Sotudeh-Gharebagh, *International Journal of Chemical Reactor Engineering*, vol. 5, A75, 2006, <http://www.bepress.com/ijcre/vol5/A75>.
37. Analysis and modeling of particle-wall contact time in gas fluidized beds, R. Zarghami, **N. Mostoufi**, R. Sotudeh-Gharebagh and J. Chaouki, *Chemical Engineering Science*, vol. 62, p. 4573-4578, 2007.
36. Reactor modeling of fluidized bed ethylene polymerization using dynamic two phase behavior (in Persian), A. Kiashemshaki, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Iranian Journal of Chemistry and Chemical Engineering*, vol. 26, p. 51-60, 2007.
35. Multiobjective dynamic optimization of an industrial steam reformer with genetic algorithm, A. Alizadeh, **N. Mostoufi** and F. Jalali-Farahani, *International Journal of Chemical Reactor Engineering*, vol. 5, A19, 2007, <http://www.bepress.com/ijcre/vol5/A19>.
34. Evaluation of heat transfer coefficient in gas-solid fluidized beds using cluster-based approach, S. Karimipour, R. Zarghami, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Powder Technology*, vol. 172, p. 19-27, 2007.
33. Modeling the hydrodynamics of downers by cluster based approach, S. Karimipour, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Industrial and Engineering Chemistry Research*, vol. 45, p. 7204-7209, 2006.
32. Cluster-based modeling of fluidized catalytic oxidation of n-butane to maleic anhydride, H. R. Hakimelahi, R. Sotudeh-Gharebagh and **N. Mostoufi**,

- International Journal of Chemical Reactor Engineering*, vol. 4, A23, 2006, <http://www.bepress.com/ijcre/vol4/A23>.
31. Two-phase modeling of the gas phase polyethylene fluidized bed reactor, A. Kiashemshaki, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Chemical Engineering Science*, vol. 61, p. 3997-4006, 2006.
 30. The dynamic modeling of the pressurizer surge tank transient in light water nuclear power plants, R. Zarghami, F. Jalali, **N. Mostoufi**, R. Sotudeh, K. Sepanloo, F. Dastjerdi and N. Ahmari, *Iranian Journal of Science & Technology, Transaction B, Engineering*, vol. 29 (B5), p. 483-491, 2005.
 29. Particle-wall contact time in fluidized beds, R. Zarghami, **N. Mostoufi**, R. Sotudeh-Gharebagh and J. Chaouki, *IASME Transactions*, vol. 2, p. 1468-1473, 2005.
 28. Optimal extraction of glycyrrhetic acid from licorice root, M. Amani, R. Sotudeh-Gharebagh, **N. Mostoufi** and H. A. Motahhari-Kashani, *Journal of Food Technology*, vol. 3, p. 576-580, 2005.
 27. Hydrogenation of acetylene: Kinetic studies and reactor modeling, **N. Mostoufi**, A. Ghoorchian and R. Sotudeh-Gharebagh, *International Journal of Chemical Reactor Engineering*, vol. 3, A14, 2005, <http://www.bepress.com/ijcre/vol3/A14>
 26. Monitoring the particle-wall contact in a gas fluidized bed by RPT, M. Hamidipour, **N. Mostoufi**, R. Sotudeh-Gharebagh and J. Chaouki, *Powder Technology*, vol. 153, p. 119-126, 2005.
 25. Experimental investigation of particle contact time at the wall of gas fluidized beds, M. Hamidipour, **N. Mostoufi**, R. Sotudeh-Gharebagh and J. Chaouki, *Chemical Engineering Science*, vol. 60, p. 4349-4357, 2005.
 24. Simulation of the synthesis section of Stamicarbon urea process (in Persian), M. Hamidipour, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Iranian Journal of Chemistry and Chemical Engineering*, vol. 24, p. 45-56, 2005.
 23. Modeling the synthesis section of an industrial urea plant, M. Hamidipour, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Chemical Engineering Journal*, vol. 106, p. 249-260, 2005.
 22. Simulation of an industrial pyrolysis gasoline hydrogenation unit, **N. Mostoufi**, R. Sotudeh-Gharebagh and M. Ahmadpour, *Chemical Engineering and Technology*, vol. 28, p. 174-181, 2005.
 21. Hydrogen recovery from refinery off-gases, S. Faraji, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Journal of Applied Sciences*, vol. 5, p. 459-464, 2005.

20. Genetic algorithm optimization of the conditions of rice straw pulping with aqueous methanol, S. Navaee-Ardeh, **N. Mostoufi**, J. Mohammadi-Rovshandeh, A. A. Khodadadi, *Cellulose Chemistry and Technology*, vol. 5-6, p. 333-343, 2004.
19. Two-phase simulation of gas-solid fluidized bed reactors by tanks-in-series model (in Persian), R. Jafari, R. Sotudeh-Gharebagh, **N. Mostoufi**, *Iranian Journal of Chemistry and Chemical Engineering*, vol. 23, p. 33-41, 2004.
18. Reactor modeling of gas-phase polymerization of ethylene, A. Kiashemshaki, **N. Mostoufi**, R. Sotudeh-Gharebagh and S. Pourmahdian, *Chemical Engineering and Technology*, vol. 27, p. 1227-1232, 2004.
17. Performance of the wide-ranging models for fluidized bed reactors, R. Jafari, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Advanced Powder Technology*, vol. 15, p. 533-548, 2004.
16. Flow structure of the solids in gas-solid fluidized beds, **N. Mostoufi** and J. Chaouki, *Chemical Engineering Science*, vol. 59, p. 4215-4225, 2004.
15. Modeling the acceleration zone in the riser of circulating fluidized beds, H. Sabbaghan, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Powder Technology*, vol. 142, p. 129-135, 2004.
14. Simulation of an acid-based starch converter, A. Iranshahi, H. R. Hakimelahi, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Chemical Engineering and Technology*, vol. 27, p. 569-577, 2004.
13. Modular simulation of fluidized bed reactors, R. Jafari, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Chemical Engineering and Technology*, vol. 27, p. 113-122, 2004. Erratum 2004, 27, 224.
12. Modelling of fluidized bed reactor of ethylene polymerization, M. Alizadeh, **N. Mostoufi**, S. Pourmahdian, and R. Sotudeh-Gharebagh, *Chemical Engineering Journal*, vol. 97, p. 27-35, 2004.
11. Simulation of a catalytic turbulent fluidized bed reactor using the sequential modular approach, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Fuel Processing Technology*, vol. 85, p. 189-200, 2003.
10. Decreasing the sampling time interval in radioactive particle tracking, **N. Mostoufi**, G. Kennedy and J. Chaouki, *Canadian Journal of Chemical Engineering*, vol. 81, p. 129-133, 2003.

9. A comparison of two- and single-phase models for fluidized bed reactors, **N. Mostoufi**, H. Cui and J. Chaouki, *Industrial and Engineering Chemistry Research*, vol. 40, p. 5526-5532, 2001.
8. Gas and solids between bubble and emulsion in gas-fluidized beds”, H. Cui, **N. Mostoufi** and J. Chaouki, *Powder Technology*, vol. 120, p. 12-20, 2001.
7. Local solid mixing in gas-solid fluidized beds, **N. Mostoufi** and J. Chaouki, *Powder Technology*, vol. 114, p. 23-31, 2001.
6. Predicting the performance of fluidized bed reactors, **N. Mostoufi**, *International Journal of Science and Technology of the University of Kashan*, vol. 1, p. 19-37, 2000.
5. On the axial movement of solids in gas-solid fluidized beds, **N. Mostoufi** and J. Chaouki, *Chemical Engineering Research and Design*, vol. 78, p. 911-920, 2000.
4. Characterization of dynamic gas-solid distribution in fluidized beds, H. Cui, **N. Mostoufi** and J. Chaouki, *Chemical Engineering Journal*, vol. 79, p. 135-145, 2000.
3. Prediction of effective drag coefficient in fluidized beds, **N. Mostoufi** and J. Chaouki, *Chemical Engineering Science*, vol. 54, p. 851-858, 1999.
2. Computer simulation of heat transfer between gas fluidized beds and heat exchanger elements (in Persian), H. Panahandeh, **N. Mostoufi** and M. Sadeghi, *Journal of the Iranian Petroleum Institute*, No. 23, p. 23-34, 1990.
1. Study of the precision of equations of state of gases (in Persian), H. Panahandeh, **N. Mostoufi** and M. K. Khoshkbarchi, *Memoirs of the Faculty of Engineering - Tehran University*, No. 50, p. 1-20, 1990.

Conferences

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81. Comparison of various measurement techniques for characterizing the hydrodynamics of gas-solid fluidized beds, M. Abbasi, N. Salehi-Nik, R. Zarghami, R. Sotudeh-Gharebagh, **N. Mostoufi**, in Fluidization XIII, S. D. Kim, Y. Kang, J. K. Lee, Y. C. Seo (eds.), Gyeong-ju (South Korea), 16-21 May 2010, pp. 113-120.

80. Separation of Zn and Mn using D2EHPA and Cyanex 272, M. Ahmadipour, F. Rashchi, B. Ghafarizadeh, **N. Mostoufi**, in ICCE-2009, Ubonratchatani (Thailand), 21-23 January 2010, pp. 112-113.
79. Mass transfer characteristics in a bubble column with Glucose Oxidase from *Aspergillus Niger*, M. Ramazani, **N. Mostoufi**, M. R. Mehrnia, in ICCE-2009, Ubonratchatani (Thailand), 21-23 January 2010, pp. 82.
78. Study of pressure fluctuations for quantifying probabilities of fluidization regimes, M. Aghabararnejad, **N. Mostoufi**, R. Sotudeh-Gharebagh, in The 6th International Chemical Engineering Congress, Kish (Iran), 16-20 November 2009.
77. Investigating the synergistic effect of D2EHPA and Cyanex 302 on zinc and manganese separation, T. Hosseini, F. Rashchi, E. Vahidi, **N. Mostoufi**, in The 6th International Chemical Engineering Congress, Kish (Iran), 16-20 November 2009.
76. Experimental validation of Lagrangian–Eulerian simulations in gas- solid fluidized beds, Z. Mansourpour, S. Karimi, **N. Mostoufi**, R. Sotudeh-Gharebagh, in The 6th International Chemical Engineering Congress, Kish (Iran), 16-20 November 2009.
75. Kinetic study of nickel leaching from spent catalyst with sulfuric acid, M. K. Nazemi, F. Rashchi, **N. Mostoufi**, E. Vahidi, in 48th Annual Conference of Metallurgists of CIM, C. A. Pickles, S. R. Rao, C. Q. Jia, S. Brienne (eds.), Sudbusy (Canada), 23-26 August 2009.
74. Effect of organic solvents on bubble size distribution and gas holdup in bubble column bioreactor, M. Asgharpour, M. R. Mehrnia, **N. Mostoufi**, B. Bonakdrapour, F. Pajoum-Shariati, in 8th World Congress of Chemical Engineering (WCCE 8), Montreal (Canada), 23-27 August 2009.
73. Flow characteristics in an airlift membrane bioreactor, A. H. Khalili-Garakani, M. R. Mehrnia, **N. Mostoufi**, M. H. Sarrafzadeh, M. Vali, F. Sadeghi, in 8th World Congress of Chemical Engineering (WCCE 8), Montreal (Canada), 23-27 August 2009.
72. Numerical investigation of thermal behavior of a gas-phase polyethylene reactor by discrete element method, S. Karimi, Z. Mansourpour, **N. Mostoufi**, R. Sotudeh-Gharebagh, in 8th World Congress of Chemical Engineering (WCCE 8), Montreal (Canada), 23-27 August 2009.
71. Mathematical modeling of steam reforming reaction in fluidized bed membrane reactor, Z. Najafi, S. Fatemi, **N. Mostoufi**, in 8th World Congress of Chemical Engineering (WCCE 8), Montreal (Canada), 23-27 August 2009.

70. Study on flow pattern in a membrane bioreactor using image analysis and computational fluid dynamics, A. Khalili-Garakani, M. R. Mehrnia, **N. Mostoufi**, M. H. Sarrafzadeh, M. Kazemzadeh, F. Sadeghi, in 2nd National Conference on Application of CFD in Chemical Industries, Tehran (Iran), 13 May 2009.
69. Simulating Bubble Characteristics in a Fluidized Bed at Elevated Pressures by Lagrangian Approach, Z. Mansourpour, S. Karimi, **N. Mostoufi**, R. Sotudeh-Gharebagh, in 2nd National Conference on Application of CFD in Chemical Industries, Tehran (Iran), 13 May 2009.
68. Quantifying of flow regime probability in a gas-solid fluidized bed, M. Aghabaranjad, R. Sotudeh-Gharebagh, **N. Mostoufi**, in 4th European Combustion Meeting (ECM 09), Vienna (Austria), 14-17 April 2009.
67. Hydrodynamic characterization of gas-solid fluidized beds using acoustic emission signals, N. Salehi-Nik, R. Sotudeh-Gharebagh, R. Zarghami, **N. Mostoufi**, in Industrial Fluidization South Africa Conference (IFSA 2008), T. Hadley and P. Smith (eds.), Johannesburg (South Africa), 18-19 November 2008, pp. 418-426.
66. Detection of particle size in fluidized beds using vibration signals, M. Abbasi, R. Sotudeh-Gharebagh, R. Zarghami, **N. Mostoufi**, in Industrial Fluidization South Africa Conference (IFSA 2008), T. Hadley and P. Smit (eds.), Johannesburg (South Africa), 18-19 November 2008, pp. 392-404.
65. Investigating the quality of gas distribution in different plenum chambers of fluidized bed by computational fluid dynamics, A. Mohammadkhah, **N. Mostoufi**, in 12th National Iranian Chemical Engineering Congress, Sahand University, Tabriz, 20-23 October 2008.
64. Numerical investigation of solids mixing in gas fluidized beds using the discrete element method, Z. Mansourpour, **N. Mostoufi**, R. Zarghami, R. Sotudeh-Gharebagh, 18th International Congress of Chemical and Process Engineering (CHISA), Prague (Czech), 24-28 August 2008.
63. Modelling of the multizone gas-phase polyethylene reactor, A. Kiashemshaki, **N. Mostoufi**, R. Sotudeh-Gharebagh, 18th International Congress of Chemical and Process Engineering (CHISA), Prague (Czech), 24-28 August 2008.
62. DEM simulation of gas and particles behavior in a fluidized bed, S. Karimi, Z. Mansourpour, **N. Mostoufi**, R. Sotudeh-Gharebagh, 18th International Congress of Chemical and Process Engineering (CHISA), Prague (Czech), 24-28 August 2008.

61. Effect of liquid hourly space velocity on conversion of methanol to dimethyl ether (DME) over γ -alumina at different temperatures, A. Eshraghi-Azar, A. Eliassi, R. Sotudeh-Gharebagh, **N. Mostoufi**, 18th International Congress of Chemical and Process Engineering (CHISA), Prague (Czech), 24-28 August 2008.
60. Temperature effect on dimethyl ether to propylene conversion over ZSM-5, A. Eshraghi-Azar, A. Eliassi, R. Sotudeh-Gharebagh, **N. Mostoufi**, 18th International Congress of Chemical and Process Engineering (CHISA), Prague (Czech), 24-28 August 2008.
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