POLYTECHNIQUE MONTRÉAL
LE GÉNIE EN PREMIÈRE CLASSE

Mojtaba Mokhtari, PhD

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Education

- **Polytechnique Montreal, Montreal, QC, Canada** (Since 2017)

Ph.D. Student, Department of Chemical Engineering

- **Sharif University of Technology, Tehran, Iran** (2010)

M.Sc. Degree, Department of Chemical and Petroleum Engineering
Thesis: "Modeling of atmospheric Ammonia dispersion using CFD"

- **Razi University, Kermanshah, Iran** (2008)

B.Sc. Degree, Department of Chemical Engineering
Thesis: "Prediction and calculation of oil cuts and gas condensate properties"

Research Interests

- Numerical Simulation/ Computational Fluids Dynamics
- Multiphase Flow
- Process Design and optimization
- Multiphase Reactor Engineering
- Nanofluids/Effect of Magnetic field on Nanofluid flow behavior
- Supersonic flow and shockwave

Work Experience

• **Arya Research Company,** Tehran, Iran.	Research Engineer	2011-2017
• **Iran west oil and gas Company**, Kermanshah, Iran	Trainee	2008

Teaching Experience

• **Fluid Mechanics**, Razi University, Kermanshah, Iran	Teaching Assistant	2007, 2008
• **Heat Transfer**, Razi University, Kermanshah, Iran	Teaching Assistant	2008

Journal Publications

- Effect of non-uniform magnetic field on heat transfer of swirling ferrofluid flow inside tube with twisted tapes, **M. Mokhtari**, S. Hariri, M. Gerdroodbary, R. Yeganeh, *Chemical Engineering and Processing: Process Intensification, 2017, 117, 70-79.*

- Numerical investigation of the heat transfer of a ferrofluid inside a tube in the presence of a non-uniform magnetic field, S. Hariri**, M. Mokhtari**, M. Gerdroodbary, K. Fallah, *The European Physical Journal Plus, 2017, 132 (2), 65.*

- Numerical study of mixed convection heat transfer of various fin arrangements in a horizontal channel, **M. Mokhtari**, MB Gerdroodbay,Rezvan Yeganeh, K. Fallah, *Engineering Science and Technology, an International Journal, 2016.*

- The influence of micro air jets on mixing augmentation of transverse hydrogen jet in supersonic flow, MB. Gerdroodbary, **M. Mokhtari,** K. Fallah, H. Pourmirzaagha, *International Journal of Hydrogen Energy, 2016, 41(47), 22497-22508*

- Mitigation of Ammonia dispersion with mesh barrier under various atmospheric stability conditions, MB. Gerdroodbary, **M. Mokhtari**, S. Bishesari, K. Fallah, *Asian Journal of Atmospheric Environment*, September 2016,10-3, 125-136.

- Influence of the angle of incident shock wave on mixing of transverse hydrogen micro-jets in supersonic crossflow. MB. Gerdroodbary, O. Jahanian, **M. Mokhtari**, *International Journal of Hydrogen Energy*, 2015, 40 (30) 9590-9601

- Heat transfer of swirling impinging jets ejected from Nozzles with twisted tapes utilizing CFD technique. Y. Amini, **M. Mokhtari**, M. Haghshenasfard. *Case Studies in Thermal Engineering*, 2015, 6, 104-115

- A New correlation for prediction wax disappearance temperature of hydrocarbon mixtures at various pressures. G.R. Moradi, M. Mohadesi, **M. Mokhtari**, *Journal of chemical and petroleum engineering*, 2013, vol47, pp 27-38

Conference Publications

- Modeling of atmospheric ammonia dispersion using CFD. **M. Mokhtari**, D. Rashtchian, M.R. Pishvaie, H. Kareshki. *1st International Regional Chemical and Petroleum Engineering & 13th Iranian National Chemical Engineering Congress*, 2010, Iran, Kermanshah.

- A correlation for prediction of oil cuts and gas condensate properties, **M. Mokhtari**, G.R. Moradi, M. Mohadesi, *12th Iranian National Chemical Engineering Congress, 2008, Iran, Tabriz. (in Persian)*

- Radiators substitution with Floor heating systems, **M. Mokhtari**, G.R. Zahedi, M. Mohadesi, *1st energy consumption optimization congress,2007, Iran, Mashhad. (in Persian)*