



## Hesam Ahmadian

Associate Professor

College: Faculty of Chemical Engineering

### Education

Degree	Graduated in	Major	University
BSc	1386	مهندسی شیمی	صنعتی شریف
MSc	1388	(مهندسی شیمی (طراحی فرایند	صنعتی شریف
Ph.D	1393	مهندسی شیمی	صنعتی شریف

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
		Tenured	Full Time	

### Papers in Journals

1. Hesam Ahmadian Behrooz, R Bozorgmehry Boozarjomehry, Distributed and decentralized state estimation in gas networks as distributed parameter systems, ISA Transactions, September 2015.
2. Hesam Ahmadian Behrooz, Robust synthesis of amine-based natural gas sweetening plants, Gas Science and Engineering, May 2023.
3. Hesam Ahmadian Behrooz, Robust design and control of extractive distillation processes under feed disturbances, Industrial & Engineering Chemistry Research, March 22, 2017.
4. Hesam Ahmadian Behrooz, A Multiobjective Robust Approach for the Design of Natural Gas Transmission Pipelines, Chemical Product and Process Modeling, June 18, 2019.
5. Amin Jasour, Reza Alizadeh and Hesam Ahmadian, Modeling of carbon dioxide and hydrogen sulfide pollutants absorption in wetted-wire columns with alkanolamines, Chemical Product and Process Modeling, January 3, 2023.
6. Hesam Ahmadian Behrooz, R Bozorgmehry Boozarjomehry, Modeling and state estimation for gas transmission networks, Journal of Natural Gas Science and Engineering, January 2015.
7. Hesam Ahmadian Behrooz, Robust set-point optimization of inferential control system of crude oil distillation units, ISA Transactions, December 2019.
8. Hesam Ahmadian Behrooz, Managing demand uncertainty in natural gas transmission

networks, *Journal of Natural Gas Science and Engineering*, August 2016.

9. Hesam Ahmadian Behrooz, Robust synthesis of the pressure-swing distillation process under azeotropic feed composition disturbance—study of the tetrahydrofuran/methanol system, *Computers & Chemical Engineering*, 2 September 2017.

10. Hesam Ahmadian Behrooz, Mohammad Hoseini, Application of the unscented transform in the uncertainty propagation of thermodynamic model parameters, *Fluid Phase Equilibria*, 15 November 2018.

11. Hesam Ahmadian Behrooz, R Bozorgmehry Boozarjomehry, Prediction of limiting activity coefficients for binary vapor-liquid equilibrium using neural networks, *Fluid Phase Equilibria*, 15 February 2017.

12. Hesam Ahmadian Behrooz, R Bozorgmehry Boozarjomehry, Dynamic optimization of natural gas networks under customer demand uncertainties, *Energy*, 1 September 2017.

13. Seyed Reza Janbarari, Hesam Ahmadian Behrooz, Optimal and robust synthesis of the biodiesel production process using waste cooking oil from different feedstocks, *Energy*, 1 May 2020.