

Curriculum Vitae (C.V)

Personal Details

First Name: Mohsen

Last Name: Gholami (M. Gholami)

Date of birth: 28 May 1982

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Education and Qualifications

B.Sc.: Chemical Engineering (Natural gas processing)

Persian Gulf University, Engineering Faculty, Department of Chemical Engineering, Boushehr,

Iran, (2005)

M.Sc.: Chemical Engineering (Transport phenomena)

Isfahan University of Technology, Faculty of Chemical Engineering, Isfahan, Iran

M.Sc. Thesis Title: Mathematical modeling and parametric study of gas dehydration using adsorption process (2007).

PhD Thesis Title: experimental and theoretical investigation of CO₂ adsorption from a humid

gas using an aminefunctionalized

adsorbent.

Interested fields

1- Adsorbent synthesis and modification

2- CO₂ capture from a humid gas

3 -Air revitalization of confined spaces

4-Mathematical modeling and numerical study of chemical processes

5-Energy optimization of TSA process

6-Water desalination using solar energy in direct and indirect heating system

7-Fluid phase equilibrium calculations such as dewpoint, bubblepoint, flash calculations, CO₂ frost point from liquid and gaseous CH₄.

Skills and Work Experiences

1-Cooperation in industrial research project: Experimental and theoretical investigation of water vapor removal from natural gas using Zeolite type adsorbents at elevated pressures

(Petropars Company)

2-Cooperation in industrial research project: Development of a software package to simulate transient and steady state natural gas flow in a user defined pipe network.

(Khuzestan Province Gas Company)

3-Designing an apparatus to measure equilibrium and kinetic of single and binary component (University of Isfahan) Publications

National Journals

1- Gholami, M.; Talaie, M. R.; Roodpeyma, Sh. Evaluation of several common adsorption models predicting natural gas component adsorption on type A and X zeolite. Farayandno .۲, ۱۹, ۲۰۰۹

International Journals

۱-M. Gholami and M. R. Talaie, "Investigation of Simplifying Assumptions in Mathematical

Modeling of Natural Gas Dehydration Using Adsorption Process and Introduction of a New Accurate LDF Model", Ind. Eng. Chem. Res. 49, (2010), 838–846.

2- M. Gholami, M. R. Talaie and Sh. Roodpeyma, "Mathematical modeling of gas dehydration using adsorption process", Chem. Eng. Sci. 65, (2010), 5942-5949.

3- Nonisothermal modeling of the flue gas desulphurization process using a semidry spouted bed reactor. Chemical Engineering Research & Design. 89, (2011), 777-784.

Impact Factor: 1.927

4- Direct synthesis of bimodal porous structure MCM41 and its application in CO₂ capturing through amine grafting. Korean Journal of Chemical Engineering. 31, (2014), 322-32. 2013 Impact Factor: 1.241

5- Investigating the Performance of Amine Grafted Silica Based Adsorbents in CO₂ removal from a Natural Gas Stream Using a Diffusion Based Mathematical Model. Gas Processing Journal. 1(2), (2014), 22-30. Conferences

Nonisothermal

1- modeling of flue gas desulfurization removal in a semidry spouted bed.

First separation science and technology conference. 2009, Kerman, Iran.

2- Mathematical modeling and parametric study of natural gas dehydration using silica gel.

Second separation science and technology conference. 2010, Kerman, Iran.

3- Mathematical modeling of multicomponent natural gas uptake on 5A zeolite bead.

Second separation science and technology conference. 2010, Kerman, Iran.

Additional Information

Orientation with Software

Good skill in numerical simulation Aspen plus Hysys Visual Basic. Net

Microsoft Office Fluent