



## Kiyanoosh Razzaghi Professor

Faculty : Engineering

Departments : chemical engineering

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University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,  
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## Education

- ✓ B.Sc, Chemical Engineering,Iran University of Science and Technology - 2002
- ✓ MS, Chemical Engineering,Sistan and Baluchestan University - 2006
- ✓ PhD, Chemical Engineering,Sistan and Baluchestan University - 2011

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## Courses

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|--------------------------|------------------------------|
| 1. Units operation II    | 2. fluid mechanics I         |
| 3. Computer Aided Design | 4. Optimization of processes |

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## Journals Papers

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### 2021

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#### 1. Experimental characterization of heat transfer enhancement in a circular tube fitted with Koflo Blade inline mixer

Ramin Zarei, Kiyanoosh Razzaghi, Farhad Shahraki

Chemical Engineering and Processing-Process Intensification Volume: (166) 1-108508 - 9-108508

### 2020

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#### 2. Improving mixing performance by curved-blade static mixer

Hasan Mahmoodi, Kiyanoosh Razzaghi, Farhad Shahraki

AICHE JOURNAL Volume: (66) 1-e17034 - 13-e17034

### 2019

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#### 3. Design and characterization of a Low-pressure-drop static mixer

, Kiyanoosh Razzaghi, Farhad Shahraki

AICHE JOURNAL Volume: (65) 1126 - 1133

#### 4. Hydrogen and CO<sub>2</sub> Management in the Refinery with Fuzzy Multiobjective Nonlinear Programming

Mohammad Reza Sardashti Birjandi, Farhad Shahraki, Kiyanoosh Razzaghi

CHEMICAL ENGINEERING and TECHNOLOGY Volume: (42) 1941 - 1951

### 2018

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#### 5. A New Optimization Strategy to Improve Design of Hydrogen Network Based Formulation of Hydrogen Consumers

, Farhad Shahraki, Kiyanoosh Razzaghi

CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY Volume: (32) 91 - 101

#### 6. Control Structure Design and Dynamic Modeling for Atmospheric Distillation Column Effect of Increase Capacity

Mir mohammad Khalilipour langerudi, Farhad Shahraki, Jafar Sadeghi, Kiyanoosh Razzaghi

international journal of industrial electronics, control and optimization Volume: (2) 103 - 113

### 2017

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#### 7. Modeling and Optimization of Alkylation Process Using Response Surface Methodology

Soroush Mehdizadeh, Farhad Shahraki, Kiyanoosh Razzaghi, Mir mohammad Khalilipour langerudi

Volume: (27) 82 - 95

### 8. The Effect of Hydrogen Permeation by Using Membrane on Outlet Ethylene Selectivity of Dual Type Catalytic Reactor System Contains Fischer- Tropsch Reactor

Farhad Shahraki, Abbas Ghareghashi, Kiyanoosh Razzaghi, ,

Volume: ( ) 135 - 149

### 9. Hydrogen network retrofit via flexibility analysis The steady-state flexibility index

, Farhad Shahraki, Kiyanoosh Razzaghi

CHEMICAL ENGINEERING RESEARCH and DESIGN Volume: (117) 83 - 94

### 10. Enhancement of gasoline selectivity in combined reactor system consisting of steam reforming of methane and Fischer-Tropsch synthesis

Abbas Ghareghashi, Farhad Shahraki, Kiyanoosh Razzaghi, ,

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (34) 87 - 99

## 2016

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### 11. Design of multivariable control structure for crude oil distillation column effect of capacity change

, Jafar Sadeghi, Farhad Shahraki, Kiyanoosh Razzaghi

Volume: (8) 1 - 12

### 12. Increasing ethylene production as a high value hydrocarbon in Fischer-Tropsch (FT) reactor: A concept reactor for combining FT with oxidative coupling of methane

Abbas Ghareghashi, Farhad Shahraki, Kiyanoosh Razzaghi, ,

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (33) 1571 - 1589

### 13. Increasing ethylene production as a high value hydrocarbon in Fischer-Tropsch (FT) reactor: A concept reactor for combining FT with oxidative coupling of methane

Farhad Shahraki, Kiyanoosh Razzaghi

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (33) 1589 - 1571

### 14. Nonsquare multivariable non-minimal state space-proportional integral plus (NMSS-PIP) control for atmospheric crude oil distillation column

Mir Mohammad Khalilipour Langerudi, Jafar Sadeghi, Farhad Shahraki, Kiyanoosh Razzaghi

CHEMICAL ENGINEERING RESEARCH and DESIGN Volume: (113) 140 - 150

### 15. Theoretical Model for Multiple Breakup of Fluid Particles in Turbulent Flow Field

Kiyanoosh Razzaghi, Farhad Shahraki

AICHE JOURNAL Volume: (62) 4508 - 4525

### 16. Design of multivariable control structure for crude oil distillation column effect of capacity change

Mir mohammad Khalilipour langerudi, Jafar Sadeghi, Farhad Shahraki, Kiyanoosh Razzaghi

Volume: (8) 1 - 12

## 2015

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17. بهینه سازی انرژی واحد تبدیل کاتالیستی پالایشگاه آبادان با استفاده از تحلیل اکسرژی

Sajjad Khasheh, Farhad Shahraki, Kiyanoosh Razzaghi,

Volume: (49) 5 - 18

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## Conferences Papers

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### 2021

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#### 1. Investigation and simulation of convection section of a refinery distillation unit furnace with CFD

CHISA 2021 VIRTUALLY - 24th International Congress of Chemical and Process Engineering

Mohammad Reza Sardashti Birjandi, Farhad Shahraki, Kiyanoosh Razzaghi, Fatemeh Karimiyan, Tayebeh Darbandi

### 2019

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#### 2. Experimental Study on Convective Heat Loss from a Fully Open Semi-Cylindrical Cavity Receiver

The 16th Iranian National Congress of Chemical Engineering

Mohsen Nikbakht, Kiyanoosh Razzaghi,

#### 3. Experimental Study of Laminar Heat Transfer Enhancement in a Circular Tube Fitted with Koflo Blade Static Mixer

The 16th Iranian National Congress of Chemical Engineering

Ramin Zarei, Kiyanoosh Razzaghi, Farhad Shahraki

#### 4. Laminar Heat Transfer Augmentation by Low-Pressure-Drop Motionless Mixers: An Experimental Study

The 16th Iranian National Congress of Chemical Engineering

Zahra Meftah, Kiyanoosh Razzaghi, Farhad Shahraki

#### 5. Experimental Study of Convective Heat Loss from a Cylindrical Solar Cavity Receiver

International Conference on Renewable energy and distributed generation of Iran

Hamideh Mobasheri shiri, Mohsen Nikbakht, , Kiyanoosh Razzaghi

### 2017

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#### 6. Hydrogen Management in the Refinery by Minimizing CO<sub>2</sub> Emissions

10th WORLD CONGRESS OF CHEMICAL ENGINEERING

Farhad Shahraki, , Kiyanoosh Razzaghi

#### 7. Non-Square Control Structure Selection for Crude Distillation Column Using Relative Gain Array Effect of Uncertain Feed Conditions

10th World Congress of Chemical Engineering

Farhad Shahraki, Bahareh Bidar, Jafar Sadeghi, Kiyanoosh Razzaghi, Mir mohammad Khalilipour langerudi

#### 8. Design and Fabrication of A Novel High-Performance Low-Pressure Drop Static Mixer

10th World Congress of Chemical Engineering

Farhad Shahraki, , Kiyanoosh Razzaghi

## 2006

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### 9. Robust Control of a High-Purity Distillation Column Using Synthesis

17th International congress of chemical and process engineering

Farhad Shahraki, Kiyanoosh Razzaghi

## 2005

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### 10. Robust Multivariable PID-Controller Design for a High-Purity Distillation Column Using - Synthesis

Metro Toronto Convection Center

Farhad Shahraki, Kiyanoosh Razzaghi

### 11. On a Problem Regarding Process Gain Directionality Error Measures

Metro Toronto Convection Center

Farhad Shahraki, Kiyanoosh Razzaghi