

In the name of Allah

## Curriculum Vitae

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### Mina Seidy Esfahlan

**Current Address:** Department of Chemical & Petroleum Engineering,  
University of Tabriz, Tabriz, East Azerbaijan Province, Iran

**Current Position:** Assistant professor

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**Marital Status:** Married



### EDUCATION

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<i>2021</i>	<b>Sahand University of Technology</b> <i>Ph.D. Petroleum Reservoir Engineering</i>	<i>Sahand, Iran</i>
<i>2013</i>	<b>Sharif University of Technology</b> <i>M.Sc. Petroleum Reservoir Engineering</i>	<i>Tehran, Iran</i>
<i>2011</i>	<b>Sharif University of Technology</b> <i>B.Sc. Petroleum Engineering</i>	<i>Tehran, Iran</i>

### SCIENTIFIC EXPERINCES

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<i>2016 -2022</i>	Investigating the Performance of Microgel for Conformance Control/IOR in Sandstone Reservoir ( <i>Ph. D Thesis</i> )
<i>Spring- Summer 2015</i>	Characterization and Classification of Highly Permeable Heavy Oil Reservoirs in the World
<i>2013</i>	Numerical and Experimental Study of Surfactant Flooding in Carbonate Rocks in Order to Enhancing Oil Recovery Factor ( <i>M.Sc. Thesis</i> )

*Fall 2011- Spring  
2012*

Modeling of Fash Test, Solving PDE Equations for Water Fooding in a Core, A Numerical Simulation Study on Fluid Fooding in 3D Spherical Cordinate, Simulation of IT (interference test) Well Testing Using Eclipse, Pansystem and Saphir

*Spring - Summer 2011*

Pore Scale Experimental Investigation of Increasing the Efficiency of of Miscible Injection Methods in Heavy Oil Fractured Reservoirs Using Ultrasonic Wave Technology. (***B.Sc.Thesis***)

## **WORK & RESEARCH EXPERIENCE**

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*Petroleum Engineer  
2016-2021*

**Sahand oil and gas research institute+ Iranian Offshore Oil Company**  
*Project of fluid data analysis of Soroosh oil field*

*Researcher  
2011 -2012*

**Ultrasonic Research Group of Sharif University of Technology**  
*As Researcher in Micro Model Student Team. This research group was working under supervision of Professor Ghotbi and was mainly working on Ultrasonic Stimulation Methods, Heavy Oil Upgrading and Designing the Ultrasonic Tools.*

*Reservoir Engineer  
Internship  
Summer-2011*

**MAPSA Company**  
*Assistant in Project of History Matching, Mapsa Company*

*Reservoir Engineer  
Internship  
Spring-2011*

**Ahvaz Technical Training Complex**

*Journalist  
2008-2009*

**Sharif Daily News**

## **TEACHING EXPERIENCE**

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*Advanced mathematics*

*Reservoir engineering (II)*

*Oil reservoir management and maintenance*

*Laboratory of reservoir rock properties*

*Laboratory of reservoir fluid properties*

*English for the students of chemical engineering*

## **PUBLICATIONS**

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➤ *Journal Papers*

**1. Comprehensive review on the research and field application of preformed particle gel conformance control technology**

M. Seidy Esfahlan, E Khodapanah, S AlirezaTabatabaei-Nezhad, *Journal of Petroleum Science and Engineering*, 2021, 108440, DOI: 10.1016/J.PETROL.2021.108440

**2. Fabrication, optimization and characterization of preformed particle gel containing nanogel particles for conformance control in oil reservoirs**

M. Seidy Esfahlan, E Khodapanah, S AlirezaTabatabaei-Nezhad, M. Salami Kalajahi, *Polymer Bulletin*, 2021, DOI: 10.1007/s00289-021-03843-2

**3. Swelling and rheological behavior of preformed particle gel nanocomposite: simultaneous effect of pressure, temperature, and salinity**

M. Seidy Esfahlan, E Khodapanah, S AlirezaTabatabaei-Nezhad, M. Salami Kalajahi, *Polymer Bulletin*, 2022, DOI: 10.1007/s00289-022-04486-7

**4. Experimental study of static adsorption of Triton-X100 on the surface of carbonate rock**

M. Seidy Esfahlan, M. Arabloo, M.H. Ghazanfari, S. Jamshidi, *Journal of Petroleum Research*, Volume 26, Issue 1-95, Pages 182-192, 2016

➤ *Conference Papers*

**1. Characterizing Preformed Particle Gel for Enhancing Oil Recovery in High Water Cut Wells**

M. Seidy Esfahlan, SA Tabatabaei-Nezhad, E Khodapanah, M Salami-Kalajahi, *European Association of Geoscientists & Engineers, Saint Petersburg 2020*, volume 2020, issue 1, pages 1-5

**2. Heavy Oil Reservoirs with Sandstone Rock Type, Properties and Recovery Methods**

M. Seidy Esfahlan, E Khodapanah, SA Tabatabaei-Nezhad, *European Association of Geoscientists & Engineers, Saint Petersburg 2020*, volume 2020, issue 1, pages 1-5

**3. An Exact Study on Thermodynamic Aspects of Nanoparticle Effect on Enhanced Oil Recovery**

M. Seidy Esfahlan, S.A. Tabatabaei-Nezhad, 2015/1/28-29, Presented at “The First Oil and Gas Fields Development Conference”, Sharif University of Technology, Tehran, Iran

**4. Upgrading of Heavy Oil Properties by Use of Nanometals**

M. Seidy Esfahlan, S.A. Tabatabaei-Nezhad, E. Khodapanah, Presented at “ The 3rd International Conference on Nanotechnology” (ICN 2015), 27-28 August 2015, Istanbul, Turkey

**5. Validity check of Soroosh oil field API Data**

M. Seidy Esfahlan, S.A. Tabatabaei-Nezhad, E. Khodapanah, 2016/2/1-2, Presented at “The Second Oil and Gas fields Development Conference, Tehran University, Tehran, Iran

## **6. Polyacrylamide microgel nanospheres: synthesis, characterization and application in EOR**

M. Seidy Esfahlan, S.A. Tabatabaei-Nezhad, E. Khodapanah, 2019/10/3-4, Presented at “The First Eurasian Conference on Nanotechnology”, Khazar University, Baku, Azerbaijan

### ➤ *Patents*

#### **1. Fabrication Method of Preformed Particle Gel Containing Nanogel Particles for Using in Oil Reservoirs**

M. Seidy Esfahlan, SA Tabatabaei-Nezhad, E Khodapanah, Fabrication method of preformed particle gel containing nanogel particles for using in oil reservoirs, Patent number: 102880, 2020.

#### **2. Optimization of the Synthesis Process of the Nanocomposite Preformed Particle Gels**

M. Seidy Esfahlan, SA Tabatabaei-Nezhad, E Khodapanah, Patent number: 105214, 2021.

## **REASEARCH INTERESTS**

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- Enhanced oil recovery
  - Miscible flooding
  - Water shutoff
  - Preformed particle gel
  - Heavy oil reservoirs
  - EOR simulation
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