## CURRICULUM VITAE JAMSHID MOGHADASI



### PHONE NUMBERS:

Tel: 06135551019

E-Mail: J.moghadasi@put.ac.ir

### **EDUCATION:**

1989 Bachelor of Chemical Engineering, Abadan Institute of Technology, Ahwaz, IRAN.

1995 MSc. in Petroleum Engineering, Petroleum University of Technology, Ahwaz, IRAN.

Thesis: Optimization of Cementing in Iranian Oilfields

1996: MSc in Industrial Engineering, Mazandran University of Technology, IRAN.

Thesis: Plant Design and Engineering Economy of Unlead Gasoline Production in Oil Refinery

1997: MSc in Management, Mazandran Training of Management Center, Sarri, IRAN.

2003:Ph.D in Petroleum Engineering, University of Surrey, Guildford, Surrey, UK.

Thesis: Particle Movement and Scale Formation in Porous Media during Water Injection in Oil Reservoir

### PRESENT POSITION:

1990-onwards Professor of Petroleum University of Technology, Ahwaz, IRAN. 2018-onwards Ghachsaran oilfield EOR executive project manager 2025-2026 Visiting Professor, Sabbatical leave in University of Calgary, Calgary, Alberta, CANADA.

### PREVIOUS POSITION:

1989-1990 Deputy of Esfahan Oil Institute of Technology, Esfahan, IRAN.

1990-1992 Head of Ahwaz oil Institute of Technology, Ahwaz, IRAN.

1991-1992 Head of Ahwaz and Mallayer Oil Institute of Technology, Mallayer, IRAN.

1992-1997 Head of Mahmoud-Abad Engineering Faculty, Mahmoud-Abad, Mazandaran, IRAN.

1997-1999 Head of Mallayer Oil Institute of Technology, Mallayer, IRAN.

1998-2000 Head of Mallayer Oil Institute of Technology and Deputy of Applied Training of Petroleum University of Technology, Mallayer, Ahwaz and Tehran.

2000-onwards Associate Professor, Researcher and Member of Petroleum Engineering Department and Researcher Center, Petroleum University of Technology, Ahwaz, IRAN.

2003-onwards visiting researcher in Chemical and Process Engineering Department, University of Surrey, Guildford, UK.

2004-2005 Head of Petroleum Engineering Department, Petroleum University of Technology, Ahwaz, IRAN.

2004-2005 Deputy of Petroleum Engineering Faculty, Ahwaz, IRAN.

2006-2007 Chairman of the First International Congress of Nanotechnology and Its Application in Oil, Gas and Petrochemical, Tehran, IRAN.

2007-2008 Chairman of the Second National Congress of Petroleum Engineering, Ahwaz, IRAN.

2005-2009 Dean of Petroleum Engineering Faculty, Ahwaz, IRAN

2009-2010 Head of Petroleum Engineering Department, Petroleum University of Technology, Ahwaz, IRAN.

2010-2012 Dean of Abadan Petroleum Faculty, Petroleum University of Technology, Abadan, IRAN.

2012-2013 Chairman of the First National Conference on HSE in Upstream industry, Abadan, IRAN.

Associate Professor in Petroleum Engineering Department, Petroleum University of Technology, Ahwaz, IRAN.

Board Member of Iranian Society of Petroleum Engineers, Tehran, IRAN. Member and Researcher of Research Center of Petroleum University of Technology, Ahwaz, IRAN.

Member of International Society of Petroleum Engineers, Richardson, USA. Member of R&D (reservoir) of National Iranian South Oil Company, IRAN 2012-2017 Dean of Ahwaz Petroleum Faculty, Petroleum University of Technology, Ahwaz, IRAN.

2016-2017 Ghachsaran oilfield EOR executive project manager

2016-2018 Visiting Professor, Sabbatical leave in University of Calgary, Calgary, Alberta, CANADA.

2025-2026 Visiting Professor, Sabbatical leave in University of Calgary, Calgary, Alberta, CANADA.

## Professional Experience:

# A] Teaching Experience

- 1. Basic Reservoir Engineering
- 2. Properties of Petroleum Fluids
- 3. Properties of Petroleum Fluids Lab.
- 4. Properties of Reservoir Rocks
- 5. Properties of Reservoir Rocks Lab.
- 6. Design and Economics in Petroleum Engineering
- 7. Enhanced Oil Recovery
- 8. Advanced Drilling Fluids
- 9. Advanced Formation Damage
- 10. Advanced Petroleum Production Operation
- 11. Well Completion
- 12. Cementing
- 13. Stimulation
- 14. Acidizing

# B] RESEARCH Experience:

- 1. Software Development for Determination of Static Well Pressure and Productivity Index, NISOC, Principle investigator, 2008.
- 2. Simulation of WAG Performance on Fahlian Darquain Reservoir, NIOC, Principle investigator, 2011.
- 3. Primary Study of Ilam & Sarval layer of Darquain Reservoir for reserve and IOIP

- estimation by production scenarios, NIOC, Principle investigator, 2013.
- 4. Simulation of Horizontal and Branched Well Drilling Possibility at a Location and Its Economic Analysis in Ilam & Sarvak Layers of Darquain Oil field, NIOC, Principle investigator, 2013.
- 5. Investigation of Formation Damage in Water Injection Process for Practical Solution to Increase Well Injectivity, RIPI, Principle investigator, 2015.

Languages: English, Persian

# C] RESEARCH ACTIVITIES:

- 1. Carbon capture and storage
- 2. Enhanced Oil Recovery
- 3. Formation Damage in oil and gas field
- 4. Fine Migration in Porous Media
- 5. Scale Formation in Porous Media
- 6. Multiphase flow in pipes
- 7. Two Phase Flow in Porous Media
- 8. Gas well liquid loading
- 9. Well completion and production of oil and gas reservoir
- 10. Optimization of oil well cementing
- 10. Water injection in oil reservoir
- 11. Hydraulic fracturing
- 12. Electrostatic forces between suspension particles

#### **GRANTS:**

- 1. Software Development for Determination of Static Well Pressure and Productivity Index, NISOC, Principle investigator, 2008.
- 2. Simulation of WAG Performance on Fahlian Darquain Reservoir, NIOC, Principle investigator, 2011.
- 3. Primary Study of Ilam & Sarval layer of Darquain Reservoir for reserve and IOIP estimation by production scenarios, NIOC, Principle investigator, 2013.
- 4. Simulation of Horizontal and Branched Well Drilling Possibility at a Location and Its Economic Analysis in Ilam & Sarvak Layers of Darquain Oil field, NIOC, Principle investigator, 2013.

5. Investigation of Formation Damage in Water Injection Process for Practical Solution to Increase Well Injectivity, RIPI, Principle investigator, 2015.

#### PATENTS:

- 1. Gas hydrate inhibitor compound, 2010.
- 2. The gas turbine output increase by use of pre-cooling plan, 2011.
- 3. Construction of scale formation in porous media Apparatus for Secondary oil recovery application, 2014.
- 4. Plant extract to reduce the surface tension between oil and water, 2016.

#### **AWARD AND HONORS:**

- 1. Top article in Journal of Petroleum Science and Engineering, Elsevier, 2004.
- 2. Petroleum University of Technology Distinguished researcher award, 2007.
- 3. Petroleum University of Technology Distinguished researcher award, 2010.
- 4. Khuzestan Technical University Research Award, 2014

### **PROFESSIONAL:**

Member of Society of Petroleum Engineering

Member of Iranian Petroleum Engineering Society

Member Board of Iranian Petroleum Engineering Society (2004-2008)

Member of Iranian Petroleum Institute.

Member of committee in upstream planning, Petroleum Ministry of IRI, (1998-2015)

Member of Research Council of National Iranian South Oil Company (NISOC) (2004-2012)

President of the First National Congress of Nanotechnology and its applications in the oil industry, Tehran, 2007.

President of the Second National Petroleum Engineering Congress, Ahwaz, 2008.

Executive Secretary of the Fifth Conference condition monitoring and Fault

diagnostics, Abadan, 2011.

Executive Secretary of the Fifth Conference condition monitoring and Fault diagnostics, Ahwaz, 2015.

Reviewed Papers for the Following Journals and Meetings (1996-present)

Environmental Earth Sciences, Springer.

Iranian Engineering Journal

Iranian Journal of Oil & Gas Science and Technology

Iranian Journal of Science & Technology

Chemistry and Chemical Engineering Journal

First National Iranian Chemical Engineering Congress, 1996.

Second National Iranian Chemical Engineering Congress, 1997.

Third National Iranian Chemical Engineering Congress, 1998.

Fourth National Iranian Chemical Engineering Congress, 1999.

Fifth National & 4th International Iranian Chemical Engineering Congress, 2000.

Sixth National Iranian Chemical Engineering Congress, 2001.

Seventh National Iranian Chemical Engineering Congress, 2003.

Eighth National Iranian Chemical Engineering Congress, 2005.

Ninth National Iranian Chemical Engineering Congress, 2006.

Tenth National & 5th International Chemical Engineering Congress, 2007.

Environmental Earth Sciences

### SUPERVISION:

Supervised and Cosupervised 7 Ph.D. Thesis Supervised 80 M.Sc Thesis Supervised 160 (BSc) under graduated final project

### LIST OF PUBLICATIONS:

- 1- Moghadasi, J., Jamialahmadi, M., Müller-Steinhagen, H., Sharif, A., Izadpanah M.R., Motai, E. and Barati, R.,: "Particle Movement in Porous Media During Water Injection," 5<sup>th</sup> International Chemical Engineering Congress, Esfahan Industrial University, Esfahan, IRAN, 28-30 April 2001.
- **2-** Moghadasi, J., Jamialahmadi, M., Müller-Steinhagen, H., Sharif, A., Izadpanah M.R., Motai, E. and Barati, R.,: "Reduction of Permeability During Water Injection in Oil Reservoir," 5<sup>th</sup> International Chemical Engineering Congress, Esfahan Industrial University, Esfahan, IRAN, 28-30 April 2001.
- **3-** Moghadasi, J., Jamialahmadi, M., Müller-Steinhagen, H., Sharif, A. and Izadpanah, M.R.: "Formation Damage in Iranian Oilfield," Society of Petroleum Engineers paper No. 73781, Presented at Society of Petroleum Engineer Formation Damage Control International Symposium and Exhibition, Lafayette, Louisiana, USA, 20-21 Feb., 2002.
- **4-** Moghadasi, J., Jamialahmadi, M., Müller-Steinhagen, H., Sharif, A., Ghalambor, A., Izadpanah, M.R. and Motaie, E.: "Scale Formation in Iranian Oil Reservoir and Production Equipment during Water Injection," Paper SPE 80406 Presented at the 5<sup>th</sup> International Oilfield Scale Symposium and Exhibition held in Aberdeen, UK, 29–30 January 2003.
- 5- Moghadasi, J., Jamialahmadi, M., Müller-Steinhagen and H., Sharif, A.: "Scale Formation in Iranian Oil Reservoir and Production Equipment during Water Injection (Kinetics of CaSO<sub>4</sub> and CaCO<sub>3</sub> Crystal Growth and Effect on Formation Damage," Society of Petroleum Engineers paper No. 82233, Presented at Society of Petroleum Engineer European Formation Damage Conference, Hague, Netherlands, 13-14 May 2003.
- 6- Moghadasi, J., Jamialahmadi, M., Müller-Steinhagen, H., and Sharif, A.: "Formation Damage due to Scale Formation in Porous Media Resulting from Water Injection," Society of Petroleum Engineers paper No. 86524, Present at Society of Petroleum Engineer Formation Damage Control International Symposium and Exhibition, Lafayette, Louisiana, USA, 18-20 Feb., 2004.
- 7- Sharif, A., Afshar, M.H., and Moghadasi, J.: "The Effect of Many Body Interactions on the Electrostatic Force on a Finite Chain of Spheres Confined in a Long Charged Tube", Journal of Powder Technology 135-136, pp.76-81, Elsevier 2003.
- 8- Moghadasi, J., Müller-Steinhagen, H., Jamialahmadi, M., and Sharif, A.: "Theoretical and Experimental Study of Particle Movement and Deposition in

- Porous Media during Water Injection" Journal of Petroleum Science and Engineering, Vol. 43, pp. 163-181, Elsevier 2004.
- **9-** Moghadasi, J., Müller-Steinhagen, H., Jamialahmadi, M., and Sharif, A.: "Theoretical and Experimental Study of Fouling in Oil Reservoir and Production Equipment during Water Injection" AIChE National Meeting, New Orleans, LA, USA, 25-29 April 2004.
- **10-** Moghadasi, J., Müller-Steinhagen, H., Jamialahmadi, M., and Sharif, A.: "A Model Study of the Kinetics of Oilfield Formation Damage due to Salt Precipitation from Injection" Journal of Petroleum Science and Engineering, Vol. 43, pp. 201-217, Elsevier 2004.
- 11- Moghadasi, J., Kalantari-Dahaghi, A.M., Gholami, V., and Abdi, R. "Formation Damage due to Asphaltene Precipitation Resulting from CO<sub>2</sub> Gas Injection in Iranian Carbonate Reservoirs," Society of Petroleum Engineers paper No. 99631, Present at the 15<sup>th</sup> SPE Europe Conference and Exhibition, Vienna, Austria, 12–15 June 2006.
- 12- Moghadasi, J., Sharif, A., Kalantari-Dahaghi, A.M. and Motaie, E. "A New Model to Describe Formation Damage during Particle Movement and Deposition in Porous Media," Society of Petroleum Engineers paper No. 99391, Present at the 15 th SPE Europe Conference and Exhibition, Vienna, Austria, 12–15 June 2006.
- 13- Kalantari-Dahaghi, A.M., Gholami, V., and Moghadasi, J., "Porosity Distribution Prediction for Reliable Reservoir Characterization through Use of Artificial Neural Network in Salman Oilfield" Society of Petroleum Engineers paper No. 100916, Present at the Asia Pacific Oil and Gas Conference and Exhibition, 11 13 Sep 2006, Adelaide, Australia.
- 14- Kalantari-Dahaghi, A.M., Moghadasi, J., Gholami, V., and Rahchamani, A. "26 Inch Hole Sidetracking Problems in Salman Oil Field, Persian Gulf: A Case Study" Society of Petroleum Engineers paper No. 100782, Present at the International Oil and Gas Conference and Exhibition, Beijing, China, 5 7 Dec 2006.
- 15- Kalantari-Dahaghi, A.M., Moghadasi, J., and Gholami, V. "Applicability of Horizontal Drilling Techniques in Iran: A Field Case Study in Bibi Hakimeh Field, Southwest Iran" Society of Petroleum Engineers paper No. 100784, Present at the International Oil and Gas Conference and Exhibition, Beijing, China, 5 7 Dec 2006.
- **16-** Kalantari-Dahaghi, A.M., Moghadasi, J., and Gholami, V. "A New Model to Describe Particle Movement and Deposition in Porous Media" Society of Petroleum Engineers paper No. 103666, Present at the First International Oil Conference and Exhibition, Cancun, Mexico, 31 August-2 September 2006.
- 17- Mohammadi Pour, M., Moghadasi, J. and Modjtahedi, S. M. "New Cement Formulation that Solves Gas Migration Problems in Iranian South Pars Field

- Condition" Society of Petroleum Engineers paper No. 105663 present at the 15<sup>th</sup> SPE Middle East oil and Gas show and conference held in Bahrain International Exhibition Center, Kingdom of Bahrain, 11-14 March 2007.
- **18-** Moghadasi, J., Müller-Steinhagen, H., Jamialahmadi, M., and Sharif, A.: "Prediction of Scale Formation Problems in Oil Reservoirs and Production Equipment due to Injection of Incompatible Waters," The Australasian Research Journal, Developments in Chemical Engineering and Mineral Processing, 14 (3/4), Curtin University of Technology, S. 545 566, ISSN 0969-1855.
- 19- Moghadasi, J. "Creating A Center of Technical Excellence: What You Can Learn From The University of Petroleum Engineering," Local Workforce Development in Global Oil and Gas International Conference, Dubai, United Arab Emirates, 29-30 May 2006.
- **20-** Moghadasi, J., Müller-Steinhagen, H., Jamialahmadi, M., and Sharif, A.: "Prediction of Scale Formation Problems in Oil Reservoirs and Production Equipment due to Injection of Incompatible Waters," Produced Water Management in Oil and Gas International Conference, Cairo, Egypt, 25 28 June 2006.
- 21- Moghadasi, J., Jamialahmadi, M., Müller-Steinhagen, H., and Sharif, A.: "A Theoretical and Experimental Investigation Removal of Formation Damage in Porous Media by EDTA," Iran J. Chem. Chem, Eng., Vol. 25, No. 2, 2006.
- **22-** Moghadasi, J., Dehdari, V., and Sharif, A.: "Radiotracer Applications in Reservoir Evaluation," SPE Reservoir Evaluation and Engineering Journal, Volume 10, No. 4, August 2007, USA.
- 23- Moghadasi, J., Müller-Steinhagen, H., Jamialahmadi, M., and Sharif, A.: "Scale Deposits in Porous Media and their Removal by EDTA Injection" The 2007 Engineering Conferences International conference "Heat Exchanger Fouling and Cleaning" will be held July 1-6, 2007 in Tomar Portugal.
- **24-** Moghadasi, J..: "Radiotracer Applications in Reservoir Evaluation," Tuha Oil and Gas Journal, Volume 4, No. 12, 2007, pp. 397-400, China.
- **25-** Moghadasi, J., Jamialahmadi, M., Müller-Steinhagen, H., and Sharif, A.: "Kinetics of CaSO<sub>4</sub> and CaCO<sub>3</sub> Crystal Growth in porous media and Effect on Formation Damage during Water Injection in Oilfields" Paper SPE 113151 Presented at the 9<sup>th</sup> International Oilfield Scale Symposium and Exhibition held in Aberdeen, UK, 28–29 may 2008.
- **26-** Moghadasi, J. and Divband M.,: "The Analysis of Fluid loss Properties under Dynamic and Static Conditions, "International Chemical Engineering Congress, Kish Island, IRAN, 2-5 Jan 2008.
- 27- Moghadasi, J., Kalantari-Dahaghi, A.M., Gholami, V., and Abdi, R. "Formation Damage due to Asphaltene Precipitation Resulting from CO<sub>2</sub> Gas Injection in

- Iranian Carbonate Reservoirs," SPE Production and Operation Journal, Volume 23, No. 2, May 2008, USA.
- **28-** Moghadasi, J.,: "Modeling of Permeability Impairment by Invasion of Solid Suspension During Water flooding in Heterogeneous Porous Media," Society of Petroleum Engineers paper No. 111275, Present at Society of Petroleum Engineer Formation Damage Control International Symposium and Exhibition, Lafayette, Louisiana, USA, 13-15 Feb., 2008.
- **29-** Moghadasi, J., Qobadi, A., and Heidaryan, E. "Synthesis and Investigation of Polyacrylamide Chromium Gel Polymer for Reducing the Water Cut in Oil Producing Wells via Polymer Flooding-Static Test," Present at World Congress on Science, Engineering and Technology held in Dubai, United Arab Emirates, 28-30 Jan 2009.
- **30-** Heidaryan, E., Moghadasi, J., and Qobadi, A. "Investigation of Inhibition Effect of Poly Vinyl Methyl Ether/Methanol Mixture as High Performance Gas Hydrate Inhibitor"," Present at World Congress on Science, Engineering and Technology held in Dubai, United Arab Emirates, 28-30 Jan 2009.
- **31-** Moghadasi, J., Kordestani, A., and Kakavand, M. "An Experimental Approach to Investigate Permeability Alteration Caused by Underbalanced Drilling in Oil Reservoir" Present in the first National Oil and Gas Exploration, Protective Production Congress, National Iranian Oil Company, Ahwaz, Iran. 15-16<sup>th</sup> April 2009.
- **32-** Mirzaei Paiaman, A. and Moghadasi, J.: "An Overview to Applicability of Multilateral Drilling in the Middle East Fields" Paper SPE 123955 Presented at the 2009 SPE Offshore Europe Oil and Gas Conference and Exhibition held in Aberdeen, UK, 8–11 Sept 2009.
- **33-** Mirazei Paiaman, A., Al-Anazi, B.D. Safian, Gh.A., and Moghadasi, J.: "The Role of Multilateral Drilling Technology in Increasing Productivity in the Middle East Fields" Paper SPE 125302 Presented at the SPE/IADC Middle East Drilling Technology Conference and Exhibition held in Manama, Bahrain, 26–28 October 2009.
- **34-** Ashena, R., Ghalambor, A., Ashena, R., and Moghadasi, J., "Comparing the Aspects of the UBD Jobs in Iran," 6<sup>th</sup> International Chemical Engineering Congress and Exhibition, Kish Island, IRAN, 16-20 Nov. 2009.
- **35-** Zeini Jahromi, M., Moghadasi, J. and Tahami, A., "Uncertainty Analysis of Discrete Fracture Network Modeling," 6<sup>th</sup> International Chemical Engineering Congress and Exhibition, Kish Island, IRAN, 16-20 Nov. 2009.
- **36-**Mirazei Paiaman, A., Moghadasi, J. and Masihi, M.: "Formation Damage through Aqueous Phase Trapping in Gas Reservoirs" Paper SPE 129637 Presented at the

- SPE Deep Gas Conference and Exhibition held in Manama, Bahrain, 24–26 January 2010.
- **37-** Heidaryan, E., Salarabadi, A., and Moghadasi, J.: "A Novel Correlation Approach for Prediction of Natural Gas Compressibility Factor" Journal of Natural Gas Chemistry, Elsevier, Vol. 19, No. 2, pp. 189-192, March 2010.
- **38-**Rezaian, A., Kordestani, A., Jamialahmadi, M., and Moghadasi, J.: "Modeling Formation Damage due to Flocculated Asphaltene Deposition through Dynamic Displacement" Paper SPE 129583 Presented at the International Oil and Gas Conference and Exhibition held in Beijing, China, 8-10 June 2010.
- **39-** Ashena, R., Moghadasi, J., Bataee, M., and Feghhi, A.,: "Neural Network in BHCP Prediction Performed much better than Mechanistic Models" Paper SPE 130095 Presented at the International Oil and Gas Conference and Exhibition held in Beijing, China, 8-10 June 2010.
- **40-**Rezaian, A., Kordestani, A., Jamialahmadi, M., Moghadasi, J., Yousefi Khoshdaregi, M., Alipanah, M., and Haghighat Sefat, M.: "Experimental and Theoretical Studies of Flocculated Asphaltene Deposition from Oil in Porous Media "Paper SPE 132680 This paper was prepared for presentation at the Trinidad and Tobago Energy Resources Conference held in Port of Spain, Trinidad, 27–30 June 2010.
- **41-**Roshanai, F., Moghadasi, J. and Safian, G.H.: "Hydraulic Fracturing in Iran-Lessons from Four Case Histories", paper SPE 136103 presentation at the 2010 Productions and Operations Conference and Exhibition, 8–10 June 2010, Tunisia.
- **42-**Roshanai, F., Moghadasi, J., Safian, G.H. and Ashena, R.: "Criteria for Selecting a Candidate Well for Hydraulic Fracturing", SPE 136988Nigeria Annual International Conference and Exhibition, 31<sup>st</sup> July-7th August 2010, Tinapa- Calabar, Nigeria.
- **43-**Roshanai, F., Moghadasi, J. and Safian, G.H.: "Acid Fracturing in Iranian Oil Fields", Presented at the 14<sup>th</sup> International Oil, Gas and Petrochemical Congress, RIPI, 19-20 May 2010, Tehran, Iran.
- **44-** Ashena, R., Moghadasi, J., Ashena, R., and Nabaie, M.: "Precise Prediction of BHCP by Neural Network Modeling", Presented at the 14<sup>th</sup> International Oil, Gas and Petrochemical Congress, RIPI, 19-20 May 2010, Tehran, Iran.
- **45-** Nabaie, M., Moazzeni, A.R., Ashena, R., and Moghadasi, J. "Utilizing Mechanical Earth Modeling Decrease Drilling Operation Cost in Iranian Oilfields", Presented at the 14<sup>th</sup> International Oil, Gas and Petrochemical Congress, RIPI, 19-20 May 2010, Tehran, Iran.
- **46-** Amiri M., and Moghadasi J.,: "The Effect of Temperature, Pressure and Mixing Ratio of Injection Water with Formation Water on Strontium Sulfate Scale

- Formation in Siri Oilfield" Presented at the 14<sup>th</sup> International Oil, Gas and Petrochemical Congress, RIPI, 19-20 May 2010, Tehran, Iran.
- 47-Amiri M., and Moghadasi J., "Investigation of Scale Formation during Water Injection in Siri Oil Field Using OLI ScaleChem Software" Journal of Separation Science and Engineering, Kerman, Iran, , 5 May 2010.
- **48-** Amiri M., and Moghadasi J., "The Study of Calcium Carbonate Scale Formation during Water Injection in Iranian Oilfields at Different" Journal of Separation Science and Engineering, Kerman, Iran, 5 May 2010.
- **49-**Heidaryan, E., Salarabadi, A., Moghadasi, J., and Dourbash A.R.: "A new high performance gas hydrate inhibitor" Journal of Natural Gas Chemistry, Elsevier, Vol. 19, No. 3, pp. 323-326, March 2010.
- **50-**Amiri M., and Moghadasi J., "Prediction the Amount of Barium Sulfate Scale Formation in Siri Oilfield using OLI ScaleChem Software", Asian Journal of Scientific Research, Volume 3 Number 4, 2010.
- **51-**Ashena, R., Moghadasi, J., Ashena, R., Sarmadi, M., and Roshanaee, F.: "Mechanistic Modeling of Annular Two-Phase Flow While Underbalanced Drilling in Iran", SPE 136991Nigeria Annual International Conference and Exhibition, 31<sup>st</sup> July-7th August 2010, Tinapa-Calabar, Nigeria.
- **52-** Ashena, R., Moghadasi, J., Ashena, R., and Zargari, H.: "Permeability Prediction of Uncored Intervals Using New IMLR Method and Artificial Neural Network: A Case Study of Bangestan Mansouri Field, Iran", SPE 140637 Nigeria Annual International Conference and Exhibition, 31st July-7th August 2010, Tinapa- Calabar, Nigeria.
- **53-** Ashena, R., Taee, B., Kamyab, M., and Moghadasi, J.: "Controlling the Underground Blowout in Well No. 104 in Marun Field- Iran", Presented at the 1<sup>th</sup> International Regional Chemical and Petroleum Engineering Conference and 13<sup>th</sup> Iranian National Chemical Engineering Congress, 25-28 Oct. 2010, Kermanshah, Iran.
- **54-** Mirzaei Paiaman A., Moghadasi, J., Masihi. M., Dalvand, K., and Oraki .I., "A New Formula for Evaluation of Severity of Aqueous Phase Trapping in Oil Reservoirs "The 1 st International Applied Geological Congress, Department of Geology, Islamic Azad University Mashad Branch, Iran, 26-28 April 2010.
- 55-Mirzaei-Paiaman, A., Masihi, M., Moghadasi, J., "Formation Damage through Aqueous Phase Trapping: A Review of the Evaluating Methods", pp.1187-1196.
- **56-**Ashena, R., Moghadasi, J., Ashena, R., Roshanai, F., Safian, G., "Mechanistic Modeling of Annular Two-Phase Flow While Underbalanced Drilling in Iran", The 34<sup>th</sup> Annual SPE International Conference and Exhibition, Tinapa-Calabar, Nigeria, 31 July-7 August 2010.

- 57-Kalantari Dahaghi, A.M., Gholami, V., and Moghadasi, J.,: "A NovelWorkflow to Model Permeability Impairment through Particle Movement and Deposition in Porous Media," Transport Porous Media, Springer, Volume 86, Issue 3, pp. 867-879, February 2011.
- **58-** Heidaryan, E., Hatami, T., Rahimi M., and Moghadasi, J., "Viscosity of pure carbon dioxide at supercritical region: measurement and correlation approach," The Journal of Supercritical Fluids, Vol. 56, pp. 144-151, Elsevier 2011.
- **59-** Ashena, R., and Moghadasi, J.: "Bottom hole pressure estimation using evolved neural networks by real coded ant colony optimization and genetic algorithm," Journal of Petroleum Science and Engineering, Vol. 77, pp. 375-385, Elsevier 2011.
- **60-** Amiri, M., Moghadasi, J., and Jamialahmadi, M., "The Study of Calcium Sulfate Scale Tendency during Water Injection in Iranian Oilfields at Different Temperatures," 7<sup>th</sup> International Chemical Engineering Congress and Exhibition, Kish Island, IRAN, 21-24 Nov 2011.
- **61-**Ravanan, Gh. Moghadasi, J., and Mohammadi, M.A., "Estimation of effective porosity using Ensemble Combination," 7<sup>th</sup> International Chemical Engineering Congress and Exhibition, Kish Island, IRAN, 21-24 Nov 2011.
- **62-** Mohammadi, M.A., Moghadasi, J., and Mohammadi, M.J., "Neural network use ability in Well Log Data Analysis," 7<sup>th</sup> International Chemical Engineering Congress and Exhibition, Kish Island, IRAN, 21-24 Nov 2011.
- **63**-Mohammadi, M.A., Moghadasi, J., and Mohammadi, M.J., "Neural network prospect in reservoir characterization," 7<sup>th</sup> International Chemical Engineering Congress and Exhibition, Kish Island, IRAN, 21-24 Nov 2011.
- **64-** Heidaryan, E and Moghadasi, J., "Frontiers in Volumetric Properties of Acid Gases", Acid Gas International Symposium, 21-23 October 2011, Chengdu, Sichuan, China
- **65-** Amiri, M., and Moghadasi, J.: "The Prediction of Calcium Carbonate and Calcium Sulfate Scale Formation in Iranian Oilfields at Different Mixing Ratios of Injection Water with Formation Water," Journal of Petroleum Science and Technology 30:3, pp. 223-236, 2012.
- **66-**Mirzaei-Paiaman, A., Dalvand K., Oraki Kohshour I., Masihi M. and Moghadasi, J., "A Study on the Key Influential Factors of a Gas Reservoir's Potential for Aqueous Phase Trapping", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, pp 1541-1549, 2012.
- 67- Amiri, M., Moghadasi, J. and Pordel, M.: "The Effect of Temperature, Pressure and Mixing Ratios of Injection Water with Formation Water on Strontium Sulphate Scale Formation in the Siri Oilfield", Journal of Petroleum Science and Technology 30:7, pp. 635-645, 2012.

- **68-** Heidaryan, E. and Moghadasi, J.: "A Laboratory Investigation into Carbon Dioxide Flooding by Focusing on the Viscosity and Swelling Factor Changes", Journal of Petroleum Science and Technology, 30:14, pp. 1441-1452, 2012.
- **69-** Mollakhorshidi, A., Moghadasi J. & Arabjamaloei R.: "An Experimental Study of the Effects of Salt Solutions on Formation Damage in a Water Injection Operation in Petroleum Reservoirs", Petroleum Science and Technology, 30:20, pp. 2169-2184, 2012.
- **70-** Shafiie, O., Moghadasi, J., Shahbazian, M., and Zargany, F.: "Optimization of Formation Volume Factor and Solution Gas-Oil Ratio Correlations for Southern Iranian Oil fields Using Genetic Algorithm", *Journal of American Science*, 2012; 8(1s):19-25.
- 71- Roustaei, A., Moghadasi, J., Bagherzadeh, H., and Shahrabadi, A.: "An Experimental Investigation of Polysilicon Nanoparticles' Recovery Efficiencies through Changes in Interfacial Tension and Wettability Alteration," paper SPE 156976 presentation at the SPE International Oilfield Nanotechnology Conference and Exhibition held in Noordwjik, The Netherlands, 12-14 June 2014.
- 72- Amiri, M., Moghadasi, J., Jamialahmadi, M., and Pordel Shahri, M.: "The Study of Calcium Sulfate Scale Formation during Water Injection in Iranian Oil Fields at Different Pressures", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 35:7, 648-658, 2013.
- 73- Amiri, M., Moghadasi, J., and Jamialahmadi, M., "Prediction of Iron Carbonate Scale Formation in Iranian Oilfields at Different Mixing Ratio of Injection Water with Formation Water," Energy Sources Part A-recovery Utilization and Environmental Effects, Vol.35, No.13, 1256-1265, 2013
- 74- Bahrami, A., Jamialahmadi, M., Moghadasi, J., and Alimohammadi, N.: "Simulation study of CO<sub>2</sub> sequestration potential of the Mary Lee coal zone, Black Warrior basin," Environmental Earth Science, Springer, DOI 10.1007/s12665-013-2293-3, 2013.
- 75- Heidaryan, E., Esmaeilzadeh, F., and Moghadasi, J.: "Natural gas viscosity estimation through corresponding states based models," Fluid Phase Equilibria 354 (2013) 80–88.
- **76-** Amiri, M. and Moghadasi, J.: "The Effect of Temperature, Pressure and Mixing Ratio of the Injection Water With Formation Water on barium Sulfate Scale Formation in the Siri Oilfield," Energy Sources, Part A, 35:1316–1327, 2013.
- 77- Bagheri, A., Rashtchian, D., Moghadasi, J., Kordestani, A. and Khojaste Far, A., "Formation Damage Due to Water-based Drilling Fluids in Naturally Fractured Reservoirs: Experimental Study," Petroleum Science and Technology, 31:1–9, 2013.

- **78-** Karimian, M., Fathinpour, N., and Moghadasi, J., "The Porosity Prediction of One of Iran South Oil Field Carbonate Reservoirs Using Support Vector Regression", Iranian Journal of Oil and Gas Science and Technology, Vol. 2(2013), No. 3, pp. 25-36.
- 79- Heydari, H., Moghadasi, J. and Motakerfard R., "A New Approach to Measuring Cementation Factor by Using an Intelligent System", Iranian Journal of Oil and Gas Science and Technology, Vol. 2(2013), No. 4, pp. 39-53.
- **80-** Khaz'ali, A., Rasaei, M.R., and Moghadasi, J., "Mixed precision parallel preconditioner and linear solver for compositional reservoir simulation," Computational Geosciences Modeling, Simulation and Data Analysis, Computational Geosciences Modeling, Simulation and Data Analysis, Springer, Volume 18 (2014) No.6, ISSN 1420-0597, pp. 729-746.
- **81-** Eshraghi E. and Moghadasi, J: "An Experimental Investigation on Archie Parameters at Ambient and Overburden Condition of Iranian Clean Carbonate Reservoir Rock and Developing a new Formation Resistivity Model for Limestone and Dolomite Samples", IPTC-17223-MS, International Petroleum Technology Conference, 19-22 January 2014, Doha, Qatar.
- 82- Fuladgar, A.M., Moghadasi, J., Ghobadi, H., and Haghi, A.H., "Optimization of Unloading Operation with Coiled Tubing (Nitrogen Lifting) in One of the Southern Iranian Oil Fields", The 8th International Chemical Engineering Congress & Exhibition (IChEC 2014) Kish, Iran, 24-27 February, 2014.
- **83-** Safarzadeh, M.A., Motealleh, M. and Moghadasi, J. "A novel, streamline-based injection efficiency enhancement method using multi-objective genetic algorithm", Journal of Petroleum Exploration and Production Technology, 14 June 2014, Springer.
- **84-** Masoomi, R. and Moghadasi, J. "Mathematical modeling and prediction of drill string stability region", Journal of Petroleum Exploration and Production Technology. (2014) 4:351–358, Springer.
- 85- Seid Mohammadi, M., Moghadasi, J., and Kordestany, A., "A Laboratory Investigation into Wettability Alteration of Carbonate Rock by Surfactants: The Effect of Salinity, pH, and Surfactant Concentration," Iranian Journal of Oil & Gas Science and Technology, Vol. 3 (2014), No. 3, pp. 01-10.
- **86-** Seid Mohammadi, M., Moghadasi, J., and Naseri, S.: "An Experimental Investigation of Wettability Alteration in Carbonate Reservoir Using γ-Al2O3 Nanoparticles," Iranian Journal of Oil & Gas Science and Technology, Vol. 3 (2014), No. 2, pp. 18-26.
- 87- Esmaeilzadeh, Sh., Afshari, A., and Moghadasi, J., "Synthesize Effective Porosity and Permeability Components of Nuclear Magnetic Resonance (NMR) Log Using

- Artificial Neural Network", International Journal of Petroleum and Geoscience Engineering (IJPGE) 2 (4): 375-386, 2014.
- **88-** Abdideh, M., Mahmoudi, N., and Moghadasi, J., "Geostatistical Analysis of the Uniaxial Compressive Strength (UCS) of Reservoir Rock by Petrophysical Information", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Vol. 36, 2014, pp. 2320-2327.
- 89- Naseri, S., Moghadasi, J., and Jamialahmadi, M., "Effect of temperature and calcium ion concentration on permeability reduction due to composite barium and calcium sulfate precipitation in porous media," Journal of Natural Gas Science and Engineering, 22 (2015) 299-312.
- **90-** Naseri, S., Moghadasi, J., and Jamialahmadi, M., "An Experimental Study on Permeability Reduction Resulting from Mixed BaSO4, CaSO4, and SrSO4 Scale Deposition in Porous Media during Water Injection", Iranian Journal of Oil & Gas Science and Technology, Vol. 4 (2015), No. 4, pp. 33-49.
- **91-** Jarrahian, J., Moghadasi, J., and Heidaryan, E., "Empirical estimating of black oils bubble point (saturation) pressure," Journal of Petroleum Science and Engineering, 126 (2015) 69-77.
- **92-** Ravi, G.R., Shadizadeh, S.R. and Moghadasi, J.: "Core Flooding Tests to Investigate the Effects of IFT Reduction and Wettability Alteration on Oil Recovery: Using Mulberry Leaf Extract", Petroleum Science and Technology, 33:3, pp. 257-264, 2015.
- 93- Ghorbani, H., Moghadasi, J., Mohammadian, N., Mansouri Zadeh, M., Hezarvand Zangeneh, M., Molaei, O., and Kamali, A.: "Development of a New Comprehensive Model for Choke Performance Correlation in Iranian Gas Condensate Wells," Advances in Environmental Biology, 8(17) September 2014, Pages: 308-313.
- 94- Khorram Ghahfarokhi, A., Dadashi, A., Daryasafar, M.A., and Moghadasi, J.: "Feasibility study of new natural leaf-derived surfactants on the IFT in an oil—aqueous system: experimental investigation", Journal of Petroleum Exploration and Production Technology, February 2015, DOI 10.1007/s13202-015-0158-x.
- 95- Farzamnia, A., Moghadasi, J., Behrouz, B., and Askari, A.A., "Unwanted Fluid Production Reduction in Different Reservoir Production Mechanisms by Using Intelligent Well Technology", American Journal of Oil and Chemical Technologies Issue 3, July 2015 Volume 3.
- **96-** Roustaei, A., Moghadasi, J., and Zargar, Gh., "Determination of Optimum Scenario for Injection of Hydrophobic Lipophilic Polysilicon Nano Fluid", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 00:1–7, 2015, ISSN: 1556-7036, 1556-7230 DOI: 10.1080/15567036.2011.648304.

- 97-Bijani, M., Mosayebi Behbahani, R. and Moghadasi, J., "Designing Effluent Treatment of Rag-e-Safid1 Desalination Plant Using Reverse Osmosis Process", Journal of Science and Todays World, 2015, volume 4, issue 12, pages: 413-417.
- 98- Kalantari Meybodia, M., Daryasafar, A., Moradi Koochia, M., Moghadasi, J., Babaei Meybodib, R., and Khorram Ghahfarokhi, A., "A novel correlation approach for viscosity prediction of water based nanofluids of Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, SiO<sub>2</sub> and CuO", Journal of the Taiwan Institute of Chemical Engineers, Volume 58, January 2016, Pages 19–27.
- **99-** Ravi, S.GH., Shadizadeh, S.R., Moghaddasi, J., and Dadashi, A., "Application of a new plant Surfactant in Rock Wettability Alteration", 2<sup>nd</sup> International Conference on New Research Achievement in Chemistry and Chemical Engineering, 5 May 2016, Tehran, Iran.
- **100-** Kalantari Meybodi, M. and Moghadasi, J. "A Novel Technique for Determination of the Onset of Asphaltene Precipitation Using Accurate Density Measurements", Iranian Journal of Oil & Gas Science and Technology, Vol. 5 (2016).
- 101- Zohorian, A.H., Moghadasi, J., Abbasi, S., and Jamialahmadi, M., "Mixed Salt Scaling in Porous Media Due to Water Incompatibility: An Experimental Investigation," Paper SPE 179915 Presented at the <sup>th</sup> International Oilfield Scale Symposium and Exhibition held in Aberdeen, UK, 11-12 May 2016.
- 102- Kiani, S., Mansouri Zadeh, M., Khodabakhshi, S., Rashidi, A., and Moghadasi, J., "Newly Prepared Nano Gamma Alumina and Its Application in Enhanced Oil Recovery: An Approach to Low-Salinity Waterflooding," Energy Fuels, April 2016. 103- Moghadasi, J. and Kargar Jahromi, E., "Gas injection rate optimization in gas lift systems by artificial intelligence, in one of the Iranian oil reservoirs," Scientific and Propagative Journal of Oil and Gas Exploration and Production, May 2016.
- **104-** Farzamnia, A., Moghadasi, J., Behrouz, T., and Askari, A.A., "Reservoir Performance Assessment Based on Intelligent Well Technology," Journal of Chemical and Petroleum Engineering, 50 (1), Jun. 2016 / 69-78.
- 105- Songolzadeh. R. and Moghadasi, J.," Stabilizing silica nanoparticles in high saline water by using ionic surfactants for wettability alteration application," Journal of Colloid and Polymer Science, Jan. 2017, Volume 295, Issue 1, pp 145–155.

- **106-** Jafari, E., Moghadasi, J. and Shakeri, Gh., "Heavy Oil Enhanced Oil Recovery by Nanoparticles", First National Conference on Gas nad Petrochemical Pricess, 3-4 May 2017, Bojnourd, Iran.
- 107- Bassir, S.M., Moghadasi, J., Daneshfar, R., Mohammadzadeh, H., and Kamranfar, P., "A Comprehensive Review on Formation Damage Due to Fines Migration", The Fifth International Conference of Oil, Gas, Refining & Petrochemical with focus on Relationship Between Government, University and Industry, 20 May 2017, Shiraz, Iran.
- 108- Kalantari Meybodi, M., and Moghadasi, J., "Effect of Pressure on Interfacial Tension of Dead Crude Oil and Water", The Fifth International Conference of Oil, Gas, Refining & Petrochemical with focus on Relationship Between Government, University and Industry, 20 May 2017, Shiraz, Iran.
- 109- Takasi, M.A., Ghasempour, R., and Moghadasi, J., "Investigation of water separation property of a new green demulsifier", 4th National Conference on Separation Science and Engineering May 24 & 25, 2017, Baboul Noushirvani University of Technology, Iran.
- 110- Jafarpour, H., Moghadasi, J., Petrakov, D.G., Litvin, V., Roshchin, P., and Kuznetsova, A., "Self-Diverting Emulsified Acid for Stimulation of Iranian AbTeymur Carbonate Reservoir", 79th EAGE Conference & Exhibition 2017 Paris, France, 12-15 June 2017.
- 111- Moghadasi, R. and Moghadasi, J., "Experimental investigation of formation damage caused by calcium sulfate scale during high and low salinity water injection and effects of Nanoparticles", 79th EAGE Conference & Exhibition 2017 Paris, France, 12-15 June 2017.
- 112- Ghorbani, H., Moghadasi, J., and Wood, D., "Prediction of gas flow rates from gas condensate reservoirs through wellhead chokes using a firefly optimization algorithm", Journal of Natural Gas Science and Engineering, Volume 45, September 2017, Pages 256-271.

- 113- Barati-Haroonia, A., Jamialahmadia, M., Moghadasia, J. and Moslemi, B., "Gas holdup in two phase gas—liquid and three phase gas—liquid—solid production and transportation," Petroleum Science and Technology, 35:18, 1814-1821, Dec .2017.
- 114- Azarshin, Sh., Moghadasi, J., and Abooasdi, Z., "Surface functionalization of silica nanoparticles to improve the performance of water flooding in oil wet reservoirs", Energy Exploration & Exploitation Journal, Dec 2017, Vol. 35(6) 685–697.
- 115- Moghadasi, R., Moghadasi, J., and Kord, S.,: "Experimental Investigation of Water Effects on Asphaltenes Surface Behavior through Interfacial Tension Measurements", Iranian Journal of Oil & Gas Science and Technology, Vol. 8 (2018).
- 116- Mohammadzadeh, H., Moghadasi, J., Basir, S.M.,: "Evaluate Diagnostic Methods for Phase Trapping in Formation Damage", The 10th International Chemical Engineering Congress and Exhibition, Isfahan, Iran, 6-10 May 2018
- 117- Moghadasi, R., Kord, S., and Moghadasi, J., "Experimental Investigation of OilWater Interfacial Properties Effects of Pressure, Asphaltenes and Resins", 80th EAGE Conference & Exhibition, 11-14 June 2018, Copenhagen, Denmark.
- 118- Moghadasi, R., Kord, S., Moghadasi, J. and Asaadian, H.,: "On the Effects of Salinity, Asphaltenes and Resins on Interfacial Tension: Applications to Low Salinity Water Injection", 80th EAGE Conference & Exhibition, 11-14 June 2018, Copenhagen, Denmark.
- 119- Ghorbani, H., Wood, D.A., Moghadasi, J., Choubineh, A., Abdizadeh, P. and Mohamadian, N.: "Predicting liquid flow-rate performance through wellhead chokes with genetic and solver optimizers: an oil field case study", Journal of Petroleum Exploration and Production Technology, Springer, August 2018.
- **120-** Khaz'ali, A.R. and Moghadasi, J., "Capillary-dominated two-phase flow modeling in porous media using Starfish", Journal of Petroleum Exploration and Production Technology, Springer, June 2019.
- **121-** Jafarpour, H., Moghadasi, J., Khormali, A., Petrakov, D.G., and Ashena, R.: "Increasing the stimulation efficiency of heterogeneous carbonate reservoirs by

- developing a multi-bached acid system", Journal of Petroleum Science and Engineering, 172 (2019) 50-59.
  - **122-** Mohammadi, S., Kord, Sh., and Moghadasi, J. "The hybrid impact of modified low salinity water and anionic surfactant on oil expulsion from carbonate rocks: A dynamic approach", Journal of Molecular Liquids 281 (2019) 352–364.
  - **123-** Mohammadi, S., Kord, Sh., and Moghadasi, J., "An experimental investigation into the spontaneous imbibition of surfactant assisted low salinity water in carbonate rocks", Fuel, Volume 243, 1 May 2019, Pages 142-154.
  - **124-** Moghadasi, R., Kord, Sh., Moghadasi, J., and Dashti, H., "Mechanistic understanding of asphaltenes surface behavior at oil/water interface: An experimental study", Journal of Molecular Liquids, Volume 285, 1 July 2019, Pages 562-571
  - 125- Davani, K., Kord, Sh., Mohammadzadeh, O., and Moghadasi, J., "Numerical simulation and three-phase pressure transient analysis considering capillary number effect case study of a gas condensate reservoir", International Journal of Oil Gasand Coal Technology 25(3):258-291,may 2020. DOI: 10.1504/IJOGCT.2020.10029161.
  - **126-** Abbasi, P., Abbasi S., and Moghadasi, J.: "Experimental investigation of mixed-salt precipitation during smart water injection in the carbonate formation", Journal of Molecular Liquids, Volume 299, 1 Feb 2020.
  - **127-** Suleymani, M., Ghotbi, C., Ashoori, S., Moghadasi, J., and Kharrat, R., "Theoretical and experimental study of foam stability mechanism by nanoparticles: Interfacial, bulk and, porous media behavior", Journal of Molecular Liquids, Volume 304, 15 April 2020, 112739. https://doi.org/10.1016/j.molliq.2020.112739
  - **128-** Suleymani, M., Ghotbi, C., Ashoori, S., Moghadasi, J., and Kharrat, R., "Static and dynamic behavior of foam stabilized by modified nanoparticles: Theoretical and experimental aspects", Chemical Engineering Research and Design, Volume 158, June 2020, Pages 114-128. https://doi.org/10.1016/j.cherd.2020.04.003
  - 129- Mohammadi, S., Kord, Sh., Moghadasi, J., and Mohammadzadeh, O.,: "Experimental Study of Rock Dissolution Mechanism During Diluted Sea Water Injection in Carbonate Reservoirs", Journal of Petroleum Research, RIPI, Vol. 30, No. 112, Volume 30, September and October 2020, Pages 34-45. DOI

- 130- Bina, O., Aminshahidi, B., Dadvar, M., and Moghadasi, J., "Capillary continuity in fractured porous media; part II: Evaluation of fracture capillary pressure in the presence of liquid bridges using a novel microfluidic approach", Journal of Molecular Liquids, Volume 314, 15 September 2020, 113666. https://doi.org/10.1016/j.molliq.2020.113666
- 131- Faghihi, Sh., Moghadasi, J., and Jamialahmadi, M.,: "Mechanism-Based Investigation of Carbon Dioxide Storage in Saline Aquifers Through Relative Permeability Experiments", Nashrieh Shimi va Mohandesi Shimi Iran, Volume 39, Issue 3 Serial Number 97, Summer 2020, Pages 211-223.
- **132-** Mohammadi, S., Kord, Sh., Mohammadzadeh, O., and Moghadasi, J.,: "An experimental study into rock dissolution mechanism during diluted sea water injection in carbonate rocks", Upstream Oil and Gas Technology, Volume 6, Feb 2021. https://doi.org/10.1016/j.upstre.2021.100031
- 133- Mirforoughi, S.M., Kord, Sh., and Moghadasi, J.,: "A Review of Acid Gas Injection into Geological Formations with The Aim of Enhanced Oil Recovery and Environmental Protection, Part 1: Theoretical Foundations", Journal of Petroleum Research, RIPI, Vol. 30, No. 115, 2021. Volume 30, March and April 2021, Pages 116-132. DOI 10.22078/pr.2020.4231.2915.
- **134-** Sedaghatinasab, R., Kord, Sh., Moghadasi, J., and Soleymanzadeh, A.: "Relative Permeability Hysteresis and Capillary Trapping during CO2 EOR and Sequestration", International Journal of Greenhouse Gas Control, Volume 106, March 2021, 103262, https://doi.org/10.1016/j.ijggc.2021.103262.
- 135- Shojaei Barjouei, H., Ghorbani, H., Mohamadian, N., Wood, D., Davoodi, Sh., Moghadasi, J., and Saberi, H.,: "Prediction performance advantages of deep machine learning algorithms for two-phase flow rates through wellhead chokes", Journal of Petroleum Exploration and Production, Volume 11, Issue 3, March 2021, pages 1233-1261. https://doi.org/10.1007/s13202-021-01087-4.
- 136- Hazbeh, O., Khezerloo-ye, S., Ghorbani, H., Mohamadian, N., Ahmadi Alvar, M.,

- and Moghadasi, J.: "Comparison of accuracy and computational performance between the machine learning algorithms for rate of penetration in directional drilling well", Petroleum Research, Volume 6, Issue 3, September 2021, Pages 271-282. https://doi.org/10.1016/j.ptlrs.2021.02.004
- 137- Farsi, M., Mohamadian, N., Ghorbani, H., Wood, D., Davoodi, Sh., Moghadasi, J., and Ahmadi Alvar, M.,: "Predicting Formation Pore-Pressure from Well-Log Data with Hybrid Machine-Learning Optimization Algorithms", Natural Resources Research, Vol. 30, No. 5, 1 April 2021, page 1-27, DOI: 10.1007/s11053-021-09852-2.
- **138-** Hazbeh, O., Ahmadi Alvar, M., Khezerloo-ye, S., Ghorbani, H., Mohamadian, N., and Moghadasi, J.: "Hybrid computing models to predict oil formation volume factor using multilayer perceptron algorithm", Journal of Petroleum and Mining Engineering, Suez University; Faculty of Petroleum and Mining Engineering, pages: 14-27, 2021/5/11. DOI: 10.21608/jpme.2021.52149.1062.
- 139- Naveshki, M., Naghiei, A., Soltani Tehrani, P., Ahmadi Alvar, M., Ghorbani, H., Mohamadian, N., and Moghadasi, J.,: "Prediction of bubble point pressure using new hybrid computational intelligence models", Journal of Chemical and Petroleum Engineering, Tehran University, 30 June 2021, DOI:10.22059/jchpe. 2021.314719.134
- 140- Rashidi, S., Mehrad, M., Ghorbani, H., Wood, D., Mohamadian, N., Moghadasi, J., and Davoodi, Sh.,: "Determination of Bubble Point Pressure & Oil Formation Volume Factor of Crude Oils Applying Multiple Hidden Layers Extreme Learning Machine Algorithms", Journal of Petroleum Science and Engineering July 2021, 202(5), DOI: 10.1016/j.petrol.2021.108425
- 141- Mirforoughi, S.M., Kord, Sh., and Moghadasi, J.,: "A Review of Acid Gas Injection into Geological Formations with The Aim of Enhanced Oil Recovery and Environmental Protection, Part 2: Areas and Principles of Experimental Research", Journal of Petroleum Research, RIPI, Vol. 31, No. 117, 2021. DOI 10.22078/pr.2020.4274.2934
- 142- Abbasi, P., Madani, M., Abbasi S., and Moghadasi, J.: "Mixed salt precipitation and water evaporation during smart water alternative CO2 injection in carbonate reservoirs", Journal of Petroleum Science and Engineering Available online 20 July

- 2021, 109258. https://doi.org/10.1016/j.petrol.2021.109258.
- 143- Rajabi Behesht, A., Soltani Tehrani, P., Naveshki, M., Ghorbani, H., Mohamadian, N., Davoodi, Sh., Khezerloo-yeAghdamg, S., Moghadasi, J. and Saberi, H., "Predicting oil flow rate through orifice plate with robust machine learning algorithms", Flow Measurement and Instrumentation, Volume 81, October 2021, 102047. https://doi.org/10.1016/j.flowmeasinst.2021.102047
- 144- Zargar, Gh., Mohsenatabar Firozjaii, A., Khedri, Mirghaed, M., and Moghadasi, J., "Experimental Study on Preventing Formation Damage Due to Clay Swelling Caused by Water Based Drilling Fluid Using Aluminum Ion Based Clay Inhibitor", Journal of Petroleum Science and Technology, RIPI, doi 10.22078/jpst.2021.4403.1714, September 2021.
- **145-** Saadatnia, N., Sharghi, Y., Moghadasi, J., and Ezati, M.,: "Geomechanical modelling and cap-rock integrity of one of the southwest Iranian giant carbonate oil field", journal of Petroleum Geomechanics; Vol. 5; Issue. 3; autumn 2022. https://DOI: 10.22107/jpg.2022.354445.1176.
- **146-** Ameri, H., Motahari, M., Ghahremani, K., and Moghadasi, J.,: "Viscosity reduction of heavy crude oils and synthetic oils with various types of rheological behavior by nano-silica fluids", Journal of Chemical Papers, Volume 76, Issue 10, July 2022. https://doi.org/10.1007/s11696-022-02331-9.
- 147- Saadatnia, N., Sharghi, Y., Moghadasi, J., and Ezati, M.,: "Fracture stability analysis during injection in one of the NFRs (Naturally fractured reservoir) of the SW Iranian giant oil field", Arabian Journal of Geosciences (Dec 2022) 16:27. https://doi.org/10.1007/s12517-022-11062-w.
- **148-** Nazemi, R., Ashoori, S., and Moghadasi, J.,: "Experimental Investigation of Hybrid Gel Performance in order to Control Fluid Loss in Fractured Formations", Journal of Petroleum Research, Volume 32, Issue 1401-6, Pages, 22-36, 2023. DOI:10.22078/PR.2022.4870.3174
- 149- Ameri, H., Shadizadeh, S.R., Moghadasi, J.,: "The particular foamed cement formulation by acid for oil/gas wells cementing jobs: an experimental approach",

- Journal of Advances in Cement Research, Volume 35, Issue 3, Pages 111-122, March 2023. https://doi.org/10.1680/jadcr.21.00154.
- 150- Nazemi, R., Ashoori, S., and Moghadasi, J.,: "Investigating the performance of non damaging hybrid gel to mitigate lost circulation in fractured formations: A comprehensive study using Box–Behnken design", Geo-energy Science and Engineering, Volume 226, July 2023, 211730. https://doi.org/10.1016/j.geoen.2023.211730.
- 151- Nourian, M., Eidi, N., and Moghadasi, J.,: "Curriculum Competencies of Bachelor's Degree in Petroleum Engineering with a Fourth Generation University Approach", Journal of Education Research, Volume 17, Issue 4, 2022, pp1-28.
- **152-** Eidi, N., Nourian, M., and Moghadasi, J.,: "The Synthesis of the Components of the Fourth-Generation University", Journal of New Approaches in Educational Administration, Volume 13, Issue 6, 2023, pp 43-60.DOI:10.30495/jedu.2023.25535.5093.
- **153-** Saadatnia, N., Sharghi, Y., Moghadasi, J., and Ezati, M.,: "Coupled hydromechanical simulation in the carbonate reservoir of a giant oil field in southwest Iran", Journal of Petroleum Exploration and Production Technology (August 2023) https://doi.org/10.1007/s13202-023-01695-2
- 154- Nazemi, R., Ashoori, S., and Moghadasi, J.,: "Investigating the performance of non-damaging hybrid gel to mitigate lost circulation in fractured formations: A comprehensive study using Box–Behnken design", Geoenergy Science and Engineering 226, 211730, 2023.
- 155- Saadatnia, N., Sharghi, Y., Moghadasi, J., and Ezati, M., : "Coupled hydromechanical simulation in the carbonate reservoir of a giant oil field in southwest Iran", Journal of Petroleum Exploration and Production Technology, Volume 14, pages 59–83, (2024)
- 156- Hosseinzade, M., Shadizadeh, SR., and Moghadasi, J.,:"Effect of natural Frankincense extract on clay swelling inhibition in water-based drilling fluids Petroleum Science and Technology, 1-23, 2024, https://doi.org/10.1080/10916466.2024.2421326

- 157- Kharrat, R., Kadkhodaie, A., Azizmohammadi, S., Misch, D., Moghadasi, J., Fardin, H., Saedi, Gh., Rokni, E., and Ott, H.,; "A Comprehensive Investigation of the Relationship between Fractures and Oil Production in a Giant Fractured Carbonate Field", MDPI, *Processes* 2024, *12*(4), 631; https://doi.org/10.3390/pr12040631
- 158- Shojaei, K. and Moghadasi, J., : "Experimental investigating of the effect of CO<sub>2</sub> injection parameters on asphaltene precipitation and formation damage in live oil", Greenhouse Gases: Science and Technology 14 (2), 238-255, 2024, https://doi.org/10.1002/ghg.2260
- 159- Nazemi, R., Moghadasi, J. and Ashoori, S.,: "Experimental Study of Nanocomposite Gel Performance in Sealing Reservoirs During Drilling Operations", Journal of Petroleum Research 34 (1403-1), 94-108, 2024
- **160-** Mohammadzadeh, H., Moghadasi, J., Shahbazi, Kh, and Kord, Sh.,: "Pore scale investigation of chelating agents flooding for enhanced oil recovery Journal of Molecular Liquids 402, https://doi.org/10.1016/j.molliq.2024.124676
- 161- Mohammadzadeh, H., Moghadasi, J., Shahbazi, Kh, and Kord, Sh.,: "Pore-scale study of the effects of DTPA chelating agent flooding on oil recovery utilizing a clay-coated micromodel", Petroleum Research 9 (2), 228-237, https://doi.org/10.1016/j.ptlrs.2023.11.001
- 162- Nazemi, R., Moghadasi, J. and Ashoori, S.,: "Design and experimental study on rheological behavior and sealing performance of shear sensitive fluids to control lost circulation during drilling", Geoenergy Science and Engineering Volume 237, June 2024, 212830, https://doi.org/10.1016/j.geoen.2024.212830
- 163- Maghsoudlou, M. and MoghadasI, J.: "Optimum salinity brine and surfactant interaction with crude oil and carbonated rock at fluid—fluid and rock-fluid interfaces: Evaluating ion-specific effects on the system", The Canadian Journal of Chemical Engineering, https://doi.org/10.1002/cjce.25593, 2025.
- 164- Faghihi, Sh., Moghadasi, J., and Jamialahmadi, M.,: "Continuous CO2 Injection for GeologicalStorage Recovery: Simultaneous and Enhanced Oil ExperimentalInvestigation on the Effects of Permeability Heterogeneity", Greenhouse Gases: Science and Technology, 2025; 0:1-14, https://doi.org/10.1002/ghg.2350.
- 165- Songolzadeh, R., Shokrollahzadeh Behbahani, H., and Moghadasi, J.,: "Molecular

- dynamics simulation of SDS-driven silica nanoparticle stabilization for wettability 26 alteration in carbonate reservoirs", Results in Engineering, Volume 27, September 2025, 106714, https://doi.org/10.1016/j.rineng.2025.106714 166-
- 166- Ayatizadeh, A., Saeedi Dehaghani, AH., and Moghadasi, J.,: "Experimental Investigation of Thermal Stress Effects from Supercritical CO<sub>2</sub> Injection on Rock Properties in Naturally Fractured Carbonate Reservoirs", Research Square, September 18th, 2025, <a href="https://doi.org/10.21203/rs.3.rs-7534620/v1">https://doi.org/10.21203/rs.3.rs-7534620/v1</a>.
- 167- Chegini, M., Moghadasi, J., and Jamialahmadi, M.,: "AI-based Fault Detection in Synthetic Seismic Data for Hydrocarbon Exploration", The 7th Applied Geophysics Conference in Oil Exploration, Tehran, Iran, Iranian National Geophysical Society, 15 October 2025.
- 168- Ebrahimi, A., and Moghadasi, J.,: "Carbon Dioxide Capture and Storage: An Ideal Path for Emission Reduction in the Power Production", the 2<sup>nd</sup> Iranian Conferenced on Compressed Gases, Iranian Society of Chemical Engineering, RIPI, April 27-28, 2025.

Some Thesis topics which supervised:

- 1. Carbon capture and storage (CCS)
- 2. Enhanced oil recovery
- 3. Formation damage due to CCS
- 4. The evaluation of horizontal well performance in one of the Iranian carbonate reservoir
- 5. Experimental Study of Relative Permeability in Two-Phase Flow Through Un Consolidated Porous Media
- 6. Experimental Studies of Pressure Drop of Non-Darcy Flow Regime in Porous Media
- 7. Reservoir Characterization Using of Inversion, Attribute and Geo-statistical Analysis Methods
- 8. Simulation study of miscible displacement in fractured reservoir
- 9. Experimental Investigation of Gas Injection on Oil Recovery in Carbonate Reservoir
- 10. Experimental Investigation of Water flooding in Carbonate Reservoirs
- 11. Production Optimization of an Iranian Oil Field
- 12.Investigation of Diffusivity Coefficient of Ahwaz Bangestan Reservoir by well-Test Analysis and Acidizing Jobs
- 13.Investigation of Influence of Asphalting Precipitation and adsorption on reservoir Rock Wettability by Contact Angle Measurement Method
- 14. Production Optimization of a Southwest Iranian Oil Reservoirs
- 12. Investigating the Matrix Fracture Transfer Function in Dual Porosity Models

- 13.Experimental Investigation of Filtration Properties of Water Base Drilling Fluid
- 14. Reservoir Parameter Estimation Using Wavelet Transform
- 15.mohammadiAn Experimental Approach to Comparing Formation Damage Caused by Overbalanced and Underbalanced Drilling, in one of the Iranian Oil Reservoirs
- 16. Investigation of the Production Performance of The Hydraulically Fractured Wells in South Oil Fields of Iran
- 17. Optimization of Cement Slurry Design Under Horizontal/Deviated Well Conditions
- 18. Investigation of Compatibility Between Injection Water and Formation Water During Water Injection in Iranian Oilfield
- 19. Effect of Water Salinity Injection on Oil Recovery in One of the Iranian Oil Reservoirs
- 20. Investigations on Quality and Optimum Usage of Cement and Presenting a new Cement Formulation for Gas Migration Prevention
- 21. Predicting the IPR Correlation of Horizontal Well in Iranian Oil Field
- 22.Investigating Performance of Inorganic Scale Inhibitors thorough Waterflooding Operations
- 23. Estimating of Formation Pore and Fracture Pressure from Well Log
- 24. Simulation of Asphaltene precipitation in one Iranian Field
- 25. Mathematical Modeling of Gas lifting for One of NISOC Reservoir
- 26. Statistical Modeling of Stuck Pipe in Southern Iranian Wells
- 27. Evaluation and Selection the Optimum Method of Production in One of NISOC Reservoirs
- 28.A Laboratory Investigation of Formation Damage in Fractured Reservoirs by Drilling Fluid
- 29. Experimental Investigation of Water Alternating-Gas Injection in Carbonate Reservoirs
- 30. Selection of the Best Well Trajectory in Iranian Southern Oil Fields: IPR Consideration
- 31.A model study of clay mobilization & permeability reduction during oil reservoir water flooding
- 32. Thermal study of wax deposition from paraffinic mixtures
- 33. Application of in-situ combustion in enhanced oil recovery

- 34. Gas hydrate stability in the petroleum industry and its application in gas-liquid separation
- 35. Fluid in UBD and effect of it in reduction of formation damage
- 36. Method of separating oil from water in petroleum production
- 37. Technical assessments of abnormal pressure while drilling
- 38. Microbial enhanced oil recovery (meor)
- 39. Improving productivity index by reducing formation damage during overbalanced and underbalanced drilling
- 40. Physico-chemical analysis of shale-drilling fluid interaction and its application in borehole stability studies
- 41. Water flooding process for recovering petroleum
- 42. Effect of Hydrogen sulfide on Ahwaz heavy oil
- 43. Viscous fingering phenomenon in water and polymer injection process in enhanced oil recovery
- 44. Effect of UBD on formation damage advantage and disadvantage
- 45. Non-Newtonian annular flow and cutting transport through annulus
- 46. Prediction of temperature profile in Iranian oil wells
- 47. Treatment of petroleum derived organic sludge and oil residues
- 48. Surface tension and viscosity measurement in the reservoir
- 49. Generating acid down hole in acid fracturing
- $50. Chromatographic \, methods \, in \, the \, analysis \, of \, petroleum \, products \,$
- 51. Viscosity of petroleum reservoir fluids: measurement and tuning of predictive models
- 52.A review on well stimulation methods on Iranian oil fields
- 53. Gas hydrate stability in the petroleum industry and its application in gas-liquid separation
- 54. Development and Applications of Fuzzy logic Systems in Reservoir characterization
- 55. Behavior of bacteria within porous matrices and application in the enhancement of oil recovery
- 56. Interfacial Tension and Viscosity of Reservoir Fluid
- 57. The potential for application of advanced offshore drilling apparatus in Iran
- 58.Limit state design of oil and gas well casing

- 59. Investigation of Effect of Weighting Agents on Cement Slurry Properties, Especially in Iranian Wells
- 60. Field Diagnosis and Measurement of Formation Damage
- 61. Filtration Properties of Water Base Drilling Fluids
- 62. Water Quality Requirements for oil Industry Water Injection Project
- 63.Method of and Composition Reducing the Loss of Fluid During Well Drilling, Completion or Work over Operations
- 64. Wettability Determination by Nuclear Magnetic Resonance
- 65. The Application Potential of Advanced offshore Drilling Apparatuses in IRAN
- 66. Isolation, Characterization & Identification of Sulfate-reducing bacteria from Oil Field Environments
- 67. Gas Migration in Oil and Gas Well Cement
- 68. Application of Fuzzy Logic in Reservoir Characterization
- 69. Rheological Behavior of Cement Slurry Used in Oil and Wells
- 70. Influence of Brine Composition and Fines Migration on Crude Oil/Brine/Rock Interactions and Oil Recovery
- 71. Gas Hydrates Stability in Petroleum Industry and its Application in Gas-Liquid Separation
- 72. Application of High Power Laser in Drilling and Completing Deep Oil and Gas Wells
- 73. Thermal Simulator for Estimation of Drilling MUD and Formation Temperatures During Drilling of Geothermal Wells
- 74. Miscible and Immiscible Gas-Oil Displacement in Porous Media
- 75. The Effect of Rock Heterogeneity on Relative Permeability and an Investigation on the Relative Permeability of Heterogeneous Formations
- 76. Environmental Management in Petroleum Industry
- 77. System and Method for Treating Drilling Mud in Oil and Gas Well Drilling Applications
- 78. Method of Preventing In-Depth Formation Damage During Injection of Water into a Formation
- 79. Additive for Inclusion in a Heavy Oil Reservoir Undergoing Steam Injection
- 80.A Review on Well Stimulation Methods on Iranian Oil Fields

- 81. Formation Damage due to Asphaltene Precipitation Resulting from CO2 Gas Injection in Carbonate Reservoirs
- 82. Isolation, Characterization, and Identification of Sulfate Reducing Bacteria from Oil Field Environment
- 83. Generating Acid Down hole in Acid Fracturing
- 84. Effect of Hydrogen Sulfide on Ahwaz Heavy Oil
- 85. Non-Newtonian Annular Flow and Cutting Transport Through Annulus
- 86.Improving Well Productivity by Evaluating and Reducing Formation Damage in Underbalanced Drilling
- 87. Evaluation of Reservoir Wettability and Its Effects on Capillary Pressure, Relative Permeability and Saturation
- 88. Methods and Apparatus for Formation Damage Removal
- 89.A Theoretical Study of Same Mechanism of Formation Damage caused by Oil-Based Drilling Fluid Filtrate
- 90.Method of Reducing Formation Damage When Drilling for Oil and Gas
- 91. Application of Horizontal Drilling Technology for Preventing Coning
- 92.Experimental Investigation of Rheology of the "A" and "D" API classes of Tehran Oil Well Cement Under Effect of Bentonite Addition
- 93. Viscosity of Petroleum Reservoir Fluid Measurement and Tuning a Predictive Model
- 94. Prediction of Sand Production Problem in Ahvaz Oil Field Using Numerical Model and Comparison of Prevention Method Models Performance
- 95. Limit State Designing of Oil & Gas Well Casing
- 96. Alkaline Water Flooding with Precipitations Inhibitor foe Enhanced Oil Recovery

Member of research Sites:

Google scholar

https://scholar.google.com/citations?user=bJIkFNIAAAAJ&hl=en

**ORCID** 

https://orcid.org/0000-0003-1572-5074

RESEARCHGATE

https://www.researchgate.net/profile/Jamshid\_Moghadasi