



Dr. Mehdi Razavifar

Assistant Professor of Petroleum Engineering

Faculty of Chemical & Petroleum Engineering
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<https://scholar.google.com/citations?user=vCz-OSIAAAAJ&hl=en>



<https://www.linkedin.com/in/mahdirazavifar>



https://www.researchgate.net/profile/Mahdi_Razavifar



Scopus

<https://www.scopus.com/authid/detail.uri?authorId=57217144566>



<https://orcid.org/0000-0001-8474-5314>

Date of birth: 1992/07/06

Marital status: Married

Nationality: Iranian

Tabriz – Iran



Education

Postdoc	Petroleum Engineering	Shiraz University, Iran	2022-2023
		Hakim Sabzevari University, Iran	2022-2023
Ph.D.	Petroleum Engineering	Shiraz University, Iran	2017-2022
		Skoltech University, Russia (Visiting Student)	
M.Sc.	Petroleum Engineering	Shahid Bahonar University, Iran	2015-2017
B.Sc.	Petroleum Engineering	Sharif University of Technology, Iran	2010-2014

Pre-University and Diploma in Physics and Mathematics



Awards and honors

- ✓ Meritorious Award Winner of Young Scientists
 - *9th Iranian Young Scientists Festival, University of Tehran, Iran - 2025*
- ✓ First place
 - *Top Scientific Book, University of Tabriz – 2025*
- ✓ First place (Gold medal)
 - *TPEC Competition, Digital Oil and Gas Fields, Iran -2024*
- ✓ Winner of the Alborz Foundation Award (*Iranian Nobel*)
 - *Selected as a top scientific elite, Iran – 2021*
- ✓ Exemplary and top student of Shiraz University, Iran – 2022
- ✓ Second place (Silver medal)- Patent
 - *Khayyam International Innovation and Invention Festival – 2020*
- ✓ Exemplary and top researcher of Fars Province, Iran- 2020



Research Interests

- ✓ Improved Oil Recovery (IOR) Methods
- ✓ Artificial Intelligence (AI)
- ✓ Gas Storage (CO₂ and H₂ Storage)
- ✓ Nano Particle (EOR)
- ✓ Geothermal Energy



Work Experiences

- **Advisor of Exceptional Talents Students**
University of Tabriz, Faculty of Chemical and Petroleum (2025 - Present)
- **Consultant of the Scientific Association**
University of Tabriz, Faculty of Chemical and Petroleum (2024 - Present)
- **Representative of Iranian Gas Institute**
University of Tabriz, Iran (2024 - Present)
- **Editor of Journal**
Iranian Journal of Gas Engineering, Iran (2024 - Present)
- **Lecturer**
Tehran University, Fouman Faculty of Engineering, Iran (2022 - 2023)
Shiraz University, Shiraz, Iran (2018 - 2022)
- **Managing Director**
Karafarinan Iranian Company, Iran (2021 - 2023)
- **Mentor of R&D Team**
World Petroleum Council (WPC), Iran (2020 - 2022)
- **R & D Manager**
Petro Bamdad Kish (PBK) Company, Iran (2014 - 2016)



Patents

- 1- Apparatus for inhibiting scale formation in plate heat exchangers using electromagnetic and ultrasonic waves
Razavifar.M, Tabazadeh. A, Mohseni.A - Acceptance number, Iran Patent Center.
- 2- Transparent Porous Medium set-up with Radiation Capability of Ultrasonic and Magnetic Waves
Razavifar.M, Qajar.J, Riazi.M - Acceptance number: 99155, Iran Patent Center.
- 3- Transparent Porous Medium set-up with the Capability of Adjusting the Temperature of Injection Fluid and the Fluid within the Model
Razavifar, Riazi.M, Qajar.J - Acceptance number: 99596, Iran Patent Center.
- 4- Three-dimensional transparent Porous Medium set-up
Acceptance number: 100364, Iran Patent Center.
- 5- Transparent Porous Medium set-up with Capability of Pressure Measurement
Acceptance number: 102772, Iran Patent Center.
- 6- Ultrasonic Transducer to improve oil recovery
Razavifar.M, Qajar.J, Riazi.M - Acceptance number: 105686, Iran Patent Center



Papers Published in Scientific Journals

- 1- Nakhaei, P., Razavifar, M. & Kadkhodaie, A. Ultrasonic Remediation of Crude Oil Contamination: A Comprehensive Review. *Acoust Aust* (2026).
<https://doi.org/10.1007/s40857-026-00397-z>
- 2- Razavifar, Mehdi, et al. "Artificial Intelligence in Gas Hydrate Management: A Comprehensive Review." *Petroleum Research* (2026).
<https://doi.org/10.1016/j.ptlrs.2026.06.002>
- 3- Razavifar, Mehdi, Kimiya Karimi, and Yasin Khalili. "Advancements and Applications of Smart Water Injection in Enhanced Oil Recovery: Mechanisms, Economic Feasibility, and Synergies with Other EOR Techniques." *Petroleum* (2026).
<https://doi.org/10.1016/j.petlm.2026.06.002>
- 4- Khumais, Haider Abdulah, Mehdi Razavifar, and Miqdam Tariq Chaichan. "Influence of tube immersion and nano-Al₂O₃ paraffin–vaseline on thermodynamic performance of solar water heating." *Journal of Energy Storage* 155 (2026): 121463.
<https://doi.org/10.1016/j.est.2026.121463>

- 5- Khalili, Yasin, Amir Ali Mohseni, Mehdi Razavifar, Salar Marivani, Saeed Zeinali Heris, and Seyed Borhan Mousavi. "Advancing the frontiers of nuclear magnetic resonance in porous media: A review of reservoir characterization and the energy transition." *The Canadian Journal of Chemical Engineering* (2026).
<https://doi.org/10.1002/cjce.70340>
- 6- Razavifar, M., Torkzadeh, H., Parsa, T. et al. Investigating the role of carbon dots in modifying reservoir rock and fluid properties for enhanced oil recovery. *J Petrol Explor Prod Technol* 15, 194 (2025).
<https://doi.org/10.1007/s13202-025-02106-4>
- 7- Razavifar, M., Roozbahani, A., Raoof, A., & Qajar, J. (2025). Impact of ultrasonic waves on physicochemical characteristics of subsurface fluid-rock systems: A review on mechanisms, synergistic effects, and applications. *Chemical Engineering and Processing-Process Intensification*, 110471.
<https://doi.org/10.1016/j.cep.2025.110471>
- 8- Khan, N., Razavifar, M., Ahmad, Q.A. et al. Machine learning model to predicting synergy of ultrasonication and solvation impacts on crude oil viscosity. *Sci Rep* 15, 29897 (2025).
<https://doi.org/10.1038/s41598-025-14752-z>
- 9- Razavifar, M. Nabipourghazanfari. et al. Modifying crude oil synergistic properties with carbon dots and ultrasonic waves. *Sci Rep* 15, 16611 (2025).
<https://doi.org/10.1038/s41598-025-04928-y>
- 10- Razavifar, M., Abdi, A., Nikooee, E. et al. Quantifying the impact of surface roughness on contact angle dynamics under varying conditions. *Sci Rep* 15, 16611 (2025).
<https://doi.org/10.1038/s41598-025-01127-7>
- 11- Razavifar, M., Yunusov, T., Mukhametdinova, A., Bakulin, D., Qajar, J., Cheremisin, A., & Riazi, M. (2025). Improving oil recovery with ultrasound: mitigating asphaltene-induced formation damage. *Journal of Petroleum Exploration and Production Technology*, 15(4), 78.
<https://doi.org/10.1007/s13202-025-01985-x>
- 12- Tahernejad, M., Nosrati, J., Zolfaghari, B., Kazemi, B. & Razavifar, M. (2025). Evaluation of the simultaneous use of α -Fe₂O₃ nanoparticles and polyacrylamide polymer as an enhanced oil recovery method. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*. 47 (1).
<https://doi.org/10.1080/15567036.2025.2505192>
- 13- Hafezi, A., Saeedi Dehaghani, A. H., Abdollahi, S., & Razavifar, M. (2024). Experimental investigation on the synergetic effect of low salinity water and ultrasonic wave on crude oil flow in porous media. *Petroleum Science and Technology*, 1-20.
<https://doi.org/10.1080/10916466.2024.2436108>
- 14- Razavifar, M., Khoshshima, A., Riazi, M., Sheng, J.J. and Esmailnezhad, E., 2024. Recent Developments, Challenges, and Prospects of Carbon Dots (CDs) for Fluid Flow Investigation in Porous Media. *Petroleum Research*.
<https://doi.org/10.1016/j.ptlrs.2024.04.004>

- 15- Qajar, Jafar, Mehdi Razavifar, and Masoud Riazi. "A mechanistic study of the synergistic and counter effects of ultrasonic and solvent treatment on the rheology and asphaltene structure of heavy crude oil." *Chemical Engineering and Processing-Process Intensification* (2023): 109619.
<https://doi.org/10.1016/j.cep.2023.109619>
- 16- Rahimi, A., Abedi, S., Baneh, S. S., Roozbahani, A., & Razavifar, M. (2023). Evaluation of a Novel Nanoclay-Surfactant-Stabilized CO₂ Foam for EOR Applications. *Arabian Journal for Science and Engineering*, 1-11.
<https://doi.org/10.1007/s13369-023-07875-w>
- 17- Amraciniya, A., Rahimi, A., Nikpour, N., Baneh, S. S., Arabzadeh, F., & Razavifar, M. (2023). Inhibition of asphaltene deposition by Al₂O₃ nanoparticles during CO₂ injection. *Petroleum Research*.
<https://doi.org/10.1016/j.ptlrs.2023.03.001>
- 18- Razavifar, M., Almasiyan, P., & Rezaei, A. (2023). EOR potentials in the poststeam-injected heavy oil reservoirs. In *Thermal Methods* (pp. 355-384). Gulf Professional Publishing.
<https://doi.org/10.1016/B978-0-12-821933-1.00005-7>
- 19- Razavifar, M., Qajar, J., & Riazi, M. (2022). Experimental study on pore-scale mechanisms of ultrasonic-assisted heavy oil recovery with solvent effects. *Journal of Petroleum Science and Engineering*, 110553.
<https://doi.org/10.1016/j.petrol.2022.110553>
- 20- Razavifar, M., Mukhametdinova, A., Nikooee, E. et al. Rock Porous Structure Characterization: A Critical Assessment of Various State-of-the-Art Techniques. *Transp Porous Med* 136, 431–456 (2021).
<https://doi.org/10.1007/s11242-020-01518-6>
- 21- Rezaie, M., Khodabakhshi, M., Esmaeli, A., Razavifar, M., Effects of Initial Wettability and Different Surfactant-Silica Nanoparticles Flooding Scenarios on Oil-Recovery from Carbonate Rocks. *Petroleum journal*. (2021).
<https://doi.org/10.1016/j.petlm.2021.03.009>
- 22- Razavifar, M., and Qajar, J. "Synergistic effects of ultrasonic irradiation and α -Fe₂O₃ nanoparticles on the viscosity and thermal properties of an asphaltenic crude oil and their application to in-situ combustion EOR". *Ultrasonics* (2021).
<https://doi.org/10.1016/j.ultras.2021.106655>
- 23- Hatami, M... Razavifar, M., "Effects of Initial Wettability and Different Surfactant-Silica Nanoparticles Flooding Scenarios on Oil-Recovery from Carbonate Rocks". *Petroleum journal*. (2021).
<https://doi.org/10.1016/j.petlm.2021.09.002>
- 24- Razavifar, M., and Qajar, J. "Experimental investigation of the ultrasonic wave effects on the viscosity and the behavior of an asphaltenic crude oil." *Chemical Engineering and Processing-Process Intensification* 153 (2020): 107964.
<https://doi.org/10.1016/j.cep.2020.107964>
- 25- Heydari, H and Razavifar, M. (2025). An Overview of CO₂ Storage in Underground Structures: Advances, Challenges, and Perspectives. *Iranian Journal of Gas Engineering*. 12-1. 91-115.
https://www.ijge.irangi.org/article_725705.html
- 26- Hafezi, A., Saeedi Dehaghani, A. H., Abdollahi, S., & Razavifar, M. (2025). Application of ultrasonic waves on the demulsification (dehydration) of crude oil. *Journal of Gas Technology*.
https://www.jgt.irangi.org/article_723920.html
- 27- Nakhaei, P and Razavifar, M. (2025). Ultrasonic Technology: A Novel Approach to Monitoring, Production and Optimization of Oil and Gas Fields. *Iranian Journal of Gas Engineering*. 12-3. 10-26.
https://ijge.irangi.org/article_735121.html



- 1- Mohammad Jahrd, Mehdi Razavifar, (2025).” Application of Biotechnology in Biodegradation of Urban Waste to Achieve Green Cities”. 1th international environmental congress on Green City, Green University, University of Tabriz, Iran.
- 2- Aidin Kabehdoust, Mobin Ebrahimpou, Mehdi Razavifar, (2025).” The Role of Artificial Intelligence in Air Quality Management and Optimizing the Use of Renewable Energies”. 1th international environmental congress on Green City, Green University, University of Tabriz, Iran.
- 3- Paniz Nakhaei, Mehdi Razavifar, (2025).” Application of Artificial Intelligence in Optimizing the Performance of Solar Panels for Sustainable Energy Supply and Quality Improvement”. 1th international environmental congress on Green City, Green University, University of Tabriz, Iran.
- 4- Meisam Gholamipour, Mehdi Razavifar, (2025).” Application of Nanotechnology on Solar Panel Design for Sustainable Energy Supply”. 1th international environmental congress on Green City, Green University, University of Tabriz, Iran.
- 5- Mohammed Jamal Mohammed Shwan «Mehdi Razavifar «Mina Seidy Esfahlan (2025).” Simulation Investigation of the Effect of Rock Permeability on the Efficiency of Hydrogen Storage”, 5th International Conference of Petroleum, Gas, Geology and Petrochemical Engineering, Iran.
- 6- Hasan Abdulzahra Challob «Omid Rafeie «Mehdi Razavifar (2025).” Numerical Study of Enhanced Oil Recovery When Polymer is Injected into an Oil Reservoir”, 5th International Conference of Petroleum, Gas, Geology and Petrochemical Engineering, Iran.
- 7- Paniz Nahaei, Mehdi Razavifar (5 May 2025). “Advances in Ultrasonic Wave Technology for Reducing Formation Damage in Hydrocarbon Reservoirs”. 3rd International Conference on New Horizons in Chemical Engineering and Biotechnology with a Focus on Commercialization, Babol Noshirvani University of Technology, Iran.
- 8- Nastaran Nazari, Mehdi Razavifar (5 May 2025). “Application of Nanotechnology for Renewable Energy Production from the Sun”. 3rd International Conference on New Horizons in Chemical Engineering and Biotechnology with a Focus on Commercialization, Babol Noshirvani University of Technology, Iran.
- 9- Amir Abbas Davoodzadeh, Mehdi Razavifar (5 May 2025). “Investigation and Evaluation of Alternative Methods of Using Gas Flaring”. 3rd International Conference on New Horizons in Chemical Engineering and Biotechnology with a Focus on Commercialization, Babol Noshirvani University of Technology, Iran.
- 10- Sara Hosseini, Mehdi Razavifar (5 May 2025). “Application of Biofuels in Sustainable Energy Supply”. 3rd International Conference on New Horizons in Chemical Engineering and Biotechnology with a Focus on Commercialization, Babol Noshirvani University of Technology, Iran.
- 11- Aydin Kabehdoost, Mehdi Razavifar, (10 May 2025). “Solar cells and new ways to use solar energy “. 10th National Conference on Chemical, Petroleum and Environmental Engineering, Tehran, Iran.
- 12- Meysam Gholamipour, Mehdi Razavifar, (27 April 2025). “The application of green hydrogen in the petrochemical industry and transportation “. 2nd Iranian Conference on Compressed Gases, Tehran, Iran.
- 13- Arian Inanlo, Mehdi Razavifar, (27 April 2025). “Investigation and evaluation of carbon dioxide biosorption “. 2nd Iranian Conference on Compressed Gases, Tehran, Iran.
- 14- Mohammad Jahed, Mehdi Razavifar, (27 April 2025). “The use of biotechnology in carbon dioxide capture “. 2nd Iranian Conference on Compressed Gases, Tehran, Iran.
- 15- Meysam Gholamipour, Mehdi Razavifar, (18 February 2025). “Environmental challenges of extracting oil and gas from hydrocarbon reservoirs”. 8th International Conference on Technology Development in Chemical Engineering, Tehran, Iran.
- 16- Nastaran Nazari, Mehdi Razavifar, (18 February 2025). “Applications of nanotechnology in carbon capture and storage (CCS)”. 8th International Conference on Technology Development in Chemical Engineering, Tehran, Iran.
- 17- Mobin Ebrahimpour, Mehdi Razavifar, (18 February 2025). “Application of renewable energies in providing sustainable energy”. 8th International Conference on Technology Development in Chemical Engineering, Tehran, Iran.
- 18- Mehdi Razavifar, Jafar Qajar, Masoud Riazi (24 September 2024). “Investigation of the effect of ultrasonic waves on the deposition of asphaltenes in porous media”. 1th Iran Interpore Conference. Tehran University, Tehran, Iran.

- 19- Kimiya Karimi, Mehdi Razavifar. (22-23 October 2024). "Investigation and evaluation of the flue gas storage in the underground structures", 5th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, Tehran, Iran.
- 20- Roya Panahi, Mehdi Razavifar. (22-23 October 2024). "Investigation and evaluation of the application of salt caverns in gas storage operation", 5th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, Tehran, Iran.
- 21- Maedeh Jalilpour, Mehdi Razavifar. (22-23 October 2024). "Investigation and evaluation of hydrogen gas storage in depleted hydrocarbon reservoirs", 5th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, Tehran, Iran.
- 22- Salar Marivani, Mehdi Razavifar. (22-23 October 2024). "Investigation and evaluation of hydrogen gas storage in salt domes", 5th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, Tehran, Iran.
- 23- Sanaz Saeedpour, Mehdi Razavifar. (22-23 October 2024). "An overview of the application of surfactant and polymer in the operation of enhanced oil recovery from reservoirs", 5th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, Tehran, Iran.
- 24- Soheil Salehpour Karimi, Mehdi Razavifar. (22-23 October 2024). "Investigation and evaluation of different methods of carbon dioxide gas injection in oil reservoirs to enhance oil recovery", 5th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, Tehran, Iran.
- 25- Amirhooesin Salimi, Mehdi Razavifar. (22-23 October 2024). "Investigation of the methods of removing heavy metals from industrial wastewater", 5th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, Tehran, Iran.
- 26- Reza Seyyednezhad, Mehdi Razavifar. (22-23 October 2024). "Investigation on the application of nanoparticles to improve production from hydrocarbon reservoirs", 5th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, Tehran, Iran.
- 27- Negar Shahedali, Zahra Amiri, Faezeh Barzegari, Mehdi Razavifar. (19 June 2024). "Application of Artificial Intelligence (AI) in Improving Oil Recovery from Hydrocarbon Reservoirs". 8th International Conference on Technology Development in Oil, Gas, Refining and Petrochemicals, Tehran, Iran.
- 28- Mobina Hasanzadeh, Mehdi Razavifar. (19 June 2024). "Investigation and Evaluation of Hydrogen Gas Storage in Underground Structures". 8th International Conference on Technology Development in Oil, Gas, Refining and Petrochemicals, Tehran, Iran.
- 29- Alireza Akbarzadeh, Majid Ahmadlouy darab Mehdi Razavifar. (19 June 2024). "Investigation on the application of nanoparticles on the enhanced oil recovery". 8th International Conference on Technology Development in Oil, Gas, Refining and Petrochemicals, Tehran, Iran.
- 30- Mehdi Razavifar, Qajar, Jafar, and Masoud Riazi. "The Effect of Simultaneous Use of Ultrasonic Waves and Solvents on the Crude Oil Viscosity", International DICLE Scientific Research and Innovation Congress, Turkey (2023).
- 31- Khodarahmi.S, Razavifar.M, Mohammadzade Shirazi. M. (2022). "The effect of well locations on the efficiency of water injection in one of the oil reservoirs in south of Iran". The 6th International Conference on Applied Research in Science and Engineering, Aachen, Germany.
- 32- Khodadahi. M, Razavifar.M. (2021). "Application of polymer injection for enhanced oil recovery". 9th International Conference on Innovation and Research in Engineering Sciences. Georgia.
- 33- Behmanesh Zad .M, Razavifar.M. (2021). "Review on chemical enhanced oil recovery methods". 9th International Conference on Innovation and Research in Engineering Sciences. Georgia.
- 34- Tayyebi.A, Razavifar.M. (2020)." The Effect of Emulsion Formation on Production of Oil Reservoirs". 6th International Conference on Innovation and Research in Engineering Sciences. Georgia.
- 35- Naghiei.A, Riahi.Sh, Razavifar.M. (2020). "Investigation and evaluation of Enhanced oil Recovery by Smart Water Injection in Carbonate Reservoirs". 7th International Conference on Innovation and Research in Engineering Sciences. Georgia.
- 36- Ebrahimi. M, Mousavi.M, Zare.A, Razavifar.M. (2020). "Application of Artificial Intelligence in Oil Industry". 13th international Conference on Engineering and Technology. Norway.
- 37- Mohammadi.A, Farahi.M, Razavifar.M. (2020). "Gas Hydrates and Prevention Methods". 13th International Conference on Engineering and Technology. Norway.
- 38- Razavifar.M. (2020). "Application of Magnetic Waves to Improve Production of Oil Reservoirs". 13th International Conference on Engineering and Technology. Norway.

- 39- EbayiHasani.P, Razavifar.M. (2020). "Application Of Transparent Porous Medium in The Oil Industry". 2nd International Congress on Science and Engineering. Paris (France).
- 40- Taam.S, Razavifar.M. (2020). "Factors Affecting the VAPEX Process in Heavy Oil Reservoirs". 5th International Conference on Innovation and Research in Engineering Sciences. Georgia.
- 41- Zare.A, Mousavi.M, Ebrahimi.M, Razavifar.M. (2020). "The Application of Carbon Dioxide Injection to Enhanced Oil Recovery". 13th International Conference on Engineering and Technology. Norway.
- 42- Hayatizadeh.E, Razavifar.M. (2020). "Evaluation and Analysis of the Type of Damage in the Oil Reservoirs". 13th International Conference on Engineering and Technology. Norway.
- 43- Farahi. M, Mohammadi.A, Razavifar.M. (2020). "Sand Production Control Methods in the Oil Fields". 13th International Conference on Engineering and Technology. Norway.
- 44- M. Farahi, A. Rahimian, Razavifar. M. (2019). "Application of Nanomaterials in Improving Properties of Drilling Mud". 4th International Conference on Innovation and Research in Engineering Sciences. Georgia.
- 45- Mohammadi. A, Konani. O, Razavifar. M. (2019). "Application of Magnetic Waves to Improve Production from Oil Reservoirs". 4th International Conference on Innovation and Research in Engineering Sciences. Georgia.
- 46- Sisakht M, Razavifar. M. (2019). "Investigation and Evaluation of Well Stimulation Methods in Oil Reservoirs". 4th International Conference on Innovation and Research in Engineering Sciences.
- 47- Kalteh. Sh, Razavifar. M, (2019). "Determination of reservoir rock properties by the imaging method". 4th International Conference on Innovation and Research in Engineering Sciences. Georgia.
- 48- Razavifar. M, Hatamizadeh.A, Qajar.J. (2019). "The application of ultrasonic waves assisted with other enhancing oil recovery methods". The 8th International Conference on Oil,Gas, Refining & petrochemical with focus relationship between government, university and industry, Shiraz, Iran.
- 49- Razavifar. M, Mahdiyar. H (2018). "Investigation of High Temperature Water Injection to Enhance the Oil Recovery with Simulation by MATLAB and ECLIPSE". The 8th International Conference on Oil,Gas, Refining & petrochemical with focus relationship between government, university and industry, Shiraz, Iran.
- 50- Razavifar. M, Jafari. S (2017). "Experimental Evaluation on the Effect of Ultrasonic on the Viscosity of Maroon Oil". The 4th international conference on Oil, Gas and petrochemical, Tehran University, Iran.
- 51- Razavifar. M, Ranjbar. M, Schaffie. M (2017). "Influence of Ultrasonic and Nano Catalysts on the Crude Oil Thermal Behavior in Relation to Thermal Oil Recovery". The 4th National conference on Oil, Gas and petrochemical, Kerman University, Iran. (ISC)
- 52- Razavifar. M, Ranjbar. M, schaffie. M (2017). "Influence of Nano catalysts and ultrasonic on the Viscosity of Maroon oil". The 5th international conference on Oil, Gas, Refining & petrochemical with focus relationship between government, university and industry, Iran.
- 53- Razvavifar. M, Ranjbar. M, Schaffie. M (2017). "Effect of Ultrasonic Frequency and Power on the Viscosity of Maroon oil". The 1th National conference on Iranian Chemical and Chemical Engineering, Kish, Iran.
- 54- Mousavi. M, Razvavifar. M, Ranjbar. M. Schaffie. M (2017). "Influence of Ultrasonic and Nano Catalysts on the Water – Oil Emulsion Stability:. The 4th National conference on Oil, Gas and petrochemical, Kerman University, Iran. (ISC)
- 55- Mousavi. M, Razvavifar. (2017). "Experimental investigation of the effect of ultrasonic Waves on the production of crude oil in the transparent micro-model". 1st International Conference on Oil, Gas, Petrochemical and HSE. Jun 14, 2017.

- 1- EOR potentials in the poststeam-injected heavy oil reservoirs.
Razavifar, M., Almasiyan, P., & Rezaei, A. (2023).
In Thermal Methods (pp. 355-384). Gulf Professional Publishing.
<https://doi.org/10.1016/B978-0-12-821933-1.00005-7>
- 2- Imaging and its application in petroleum engineering
December 1, 2024 – Sharif University of Technology Publication – Iran.
- 3- The Application of Ultrasonic Waves to Enhance Recovery in Oil and Gas Fields
Apr 28, 2025 – University of Tabriz- Iran.
- 4- English for Chemical Engineers
Feb 10, 2025 – Zarnevesht Publication, Iran. (Collaboration of Gas Institute and University of Tabriz)
- 5- Comprehensive Python Programming Learning
Feb 9, 2025 – Zarnevesht Publication, Iran. (Collaboration of Gas Institute and University of Tabriz)
- 6- Geostatistical Analysis of Hydrocarbon Reservoirs
Jul 24, 2019 - Nebeshteh Publication – Iran.
- 7- Chemical Enhanced Oil Recovery Methods
Jan 22, 2021 - IOI WPC (Iran Oil Industry World Petroleum Council) – Iran.
- 8- *Proper Management of Flare Gas in Iran*
Jul 8, 2020 - IOI WPC (Iran Oil Industry World Petroleum Council) – Iran.
- 9- Application of Nanotechnology in the Oil Industry
Jun 17, 2020 - IOI WPC (Iran Oil Industry World Petroleum Council) – Iran.
- 10- Fundamental of Fluid Flow and Geomechanics Modeling and Simulation in Porous Media
Apr 11, 2020 - IOI WPC (Iran Oil Industry World Petroleum Council) – Iran.
- 11- Production improvement methods in oil reservoirs
Dec 5, 2020 - IOI WPC (Iran Oil Industry World Petroleum Council) – Iran.
- 12- Step-by-step PVTi software Learning
2021- Department of Petroleum Engineering - Iran.
- 13- Step-by-step Saphir software Learning
2021- Department of Petroleum Engineering - Iran.
- 14- Wellhead and Christmas tree Technology
Jan 20, 2022 - IOI WPC (Iran Oil Industry World Petroleum Council) – Iran.
- 15- Well Stimulation Methods
May 2, 2022 - IOI WPC (Iran Oil Industry World Petroleum Council) – Iran.
- 16- The World of Petroleum Engineering
2022- Department of Petroleum Engineering- Iran.
- 17- Eclipse Reservoir Simulator Software Learning
2024- Department of Petroleum Engineering- Iran



Language Proficiency

English: Fluent

Turkish: Fluent

Persian: Native



Software and Programming

- **Eclipse: Professional**

Hydrocarbon reservoir simulation, Enhanced oil recovery methods, Production optimization

- **Saphir: Professional**

Well-test design and analysis

- **MATLAB: Professional**

Programming, optimization

- **Python: Professional**

Programming, optimization

- **PVTi: Professional**

Reservoir fluid simulation



International Associations and Memberships



- *Representative of Iranian Gas Institute, University of Tabriz*
Member ID:10941



World
Petroleum
Council

- ✓ Mentor of R&D (Project) Team - Iran (2020 – 2022)
- ✓ **Key Speaker** At the WPC Expert Workshop on HC Increasing Recovery Efficiency in the Mature Fields: Methods & Technology for Cooperation (Bucharest, **Romania**- 21 & 22 October 2019)



Society of Petroleum Engineers

Member ID:5091805

EAGE

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ENGINEERS

Member ID:M2022-104633



Reviewer of Journal

<https://orcid.org/0000-0001-8474-5314>

- *Chemical Engineering Journal*
- *Chemical thermodynamics and thermal analysis*
- *Petroleum Science and Technology*
- *Geoenergy Science and Engineering*
- *Engineering geology*
- *Journal of Petroleum Science and Engineering*
- *Ultrasonics*
- *Geosystem engineering*
- *International journal of adhesion and adhesives*
- *Measurement*
- *Engineering Geology*
- *Langmuir*
- *Gels*
- *Journal of Polymer Research*
- *Journal of Gas Technology*
- *Journal of Chemical and Petroleum Engineering*
- *Iranian Journal of Gas Engineering*
- *Processes*



- *Production Engineering*
- *Reservoir Simulation*
- *Enhanced Oil Recovery Methods*
- *Well Test*
- *Reservoir Engineering*
- *Reservoir Rock Properties*
- *Fluid Flow in Porous Media*
- *Engineering Mathematics*
- *Fundamentals of Petroleum Engineering*
- *Multi-phase Flow in Pipelines*
- *English for Chemical and Petroleum Engineering*
- *Computer Programming (Python)*
- *Thermodynamic*