Dr. Khaled Maroufi
Assistant Professor
Faculty of Petroleum and Natural Gas Engineering
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Degrees:

- 2012-2017   Ph.D. in Petroleum Geology
Faculty of Geosciences, Shahid Chamran University, Ahwaz, Iran

- 2009-2011   M.Sc. in Petroleum Geology
Faculty of Geosciences, Shahid Chamran University, Ahwaz, Iran

- 2005-2009   B.Sc. in Geology
Faculty of Sciences, Tabriz University, Tabriz, Iran

Field of Interest:

- Reservoir Geochemistry
- Petroleum System Modeling
- Source rock characterization
- Artificial Intelligence Techniques
- Reservoir Characterization
- Sequence Stratigraphy

Honors:

o Ranked 1st among B.Sc. Students, Faculty of Sciences, Tabriz University, Tabriz, Iran, 2005-2009.
o Ranked 1st among more than 1000 Students in the National University Entrance Exam for M.Sc. Degree of Petroleum Geology, 2009.
o Ranked 2nd among more than 6000 Geology Students in the National University Entrance Exam for M.Sc. Degree of Geology, 2009.

- Ranked 1st among more than 100 Petroleum Geologists in the National University Entrance Exam for PHD Degree, 2012.

Professional Experience:

- Assistant Professor at Sahand University of Technology (SUT), Faculty of Petroleum and Natural Gas Engineering (2021-now).
- Senior Geochemist, Tehran Energy Consultants Company (2020-2021).
- Well-site Geologist Supervisor at the South-Azadegan oilfield, Tehran Energy Consultants Company (2016-2018).
- Well-site Geologist at the South Pars Gas Field, Dana Energy Group (2013-2016).
- Mud Logger and Data Engineer at onshore and offshore rigs along with geological job, Geo-Data Company (2010-2013).

Teaching Experience:

- **Graduate course**: Application of AI in Petroleum Engineering, Advanced Petroleum Geology of Iran, Advanced Organic-Petroleum Geochemistry, Sedimentary Basin Analysis, Geostatic
- **Undergraduate course**: General Geology, Structural Geology, Petroleum Geology, Petroleum Geochemistry

Journal Papers:

- Maroufi, K., and Zahmatkesh, I., 2023. Effect of lithological variations on the performance of artificial intelligence techniques for estimating total organic carbon through well logs. Journal of Petroleum Science and Engineering, 220, 111213.
- Kabolizadeh, M., Karimian, R., Rangzan, K., Alizadeh, B., and Maroufi, K., 2023. Development of a geodatabase for retrieval of geochemical data from oil wells: A case study from the Gachsaran oilfield; SW Iran. Geoenergy Science and Engineering, 225, 211621.
- Taghizadeh, F., Maroufi, K., Falahat, R. and Opera, A., 2023. Geochemical evaluation of hydrocarbon source rocks in the Chilingar oilfield along with measuring matrix effect, inert organic material and composition of the active kerogen. Advanced Applied Geology, 13(4), pp.953-977, (in Persian).
- Maroufi, K., and Zahmatkesh, I., 2023. Accurate Estimation of Residual Hydrocarbon Potential by Removing the Adverse Effects of Lithological Variations on the Training Process of Adaptive Neuro-Fuzzy Inference System. Advanced Applied Geology, 13(1), 278-298, (in Persian).

- Alizadeh, B., Maroufi, K. and Fajrak, M., 2018. Oil-oil correlation, geochemical characteristics, and origin of hydrocarbons from Mansourabad Oilfield, SW Iran. Journal of African Earth Sciences 147, 383-392.
- Alizadeh, B., Maroufi, K. and Heidarifard, M.H., 2018. Estimating Source Rock Parameters Using Wireline Data: An Example from Dezful Embayment, South West of Iran. Journal of Petroleum Science and Engineering 167, 857-868.
- Alizadeh, B., Maroufi, K. and Fajrak, M., 2018. Hydrocarbon Reserves of Gachsaran Oilfield, SW Iran: Geochemical Characteristics and Origin. Journal of Marine and Petroleum Geology 92, 308-318.
- Maroufi, K., Alizadeh, B., Rokni, E. and Fajrak, M., 2018. Integrating Reservoir Geochemistry and Engineering Approaches to Investigate Connectivity of Asmari and Bangestan Reservoirs in Gachsaran Oilfield. Quarterly Advance Applied Geology, Shahid Chamran University of Ahvaz, No. 26, pp. 27-39, (in Persian).
- Alizadeh, B., Maroufi, K. and Heidarifard, M.H., 2012. Validation and Comparison of Artificial Neural Network (ANN) and ΔLogR Techniques in Evaluating Organic Matter Content of Source Rocks: Case Study from Pabdeh Formation, Marun Oilfield. Journal of Stratigraphy and Sedimentology Researches, Esfahan University. No. 48, pp. 1-18, (in Persian).
- Alizadeh, B., Maroufi, K. and Heidarifard, M.H., 2012. Evaluation of Organic Matter Content Achieved from Artificial Neural Network in a Sequence Stratigraphic Framework: A Case Study from Pabdeh Formation of Marun Oilfield. Quarterly Advance Applied Geology, Shahid Chamran University of Ahvaz, No. 7, pp. 21-30, (in Persian).

Conference Proceedings:

- Mohammadi, E., Maroufi, K., Bavi Oveidi, A.R. and Kiani Shahvani, M., 2023. Practical Stratigraphy, Paleontology and Sedimentology Evidences in the Field Study of the Pabdeh Formation (Paleocene – Oligocene), Zagros, SW Iran. 8th Symposium of Sedimentological Society of Iran, University of Hormozgan, (in Persian).
- Mahmoudi, A. and MAroufi, K., 2023. Performance Evaluation of Practical Clay Indicator Method in Estimating Total Organic Carbon. 26th Symposium of Geological Society of Iran, Urmia University, (in Persian).
- Maroufi, K., Alizadeh, B., Vosoughi, A., Heidarifard, M.H. and Hoseini, S.H., 2011. Mineral Matrix Effect on Hydrocarbon Adsorption Using Artificial Neural Network Results. National conference of utilization of geosciences in fundamental researches, Azad University of Tehran Shomal, (in Persian).
- Maroufi, K., Alizadeh, B. and Heidarifard, M.H., 2011. Evaluation of Artificial Neural Network and ΔLogR Methods in Calculating Total Organic Carbone of Source Rocks. 5th Conference of Proficiency Geology, Payam Nour University of Abhar, (in Persian).

- Vosoughi, A., Alizadeh, B., Maroufi, K., Heidarifard, M.H. and Hoseini, S.H., 2011. Effect of Maturity and Matrix Type on the Intensity of Hydrocarbon Adsorption by Mineral Matrix in Pabdeh and Kazhdomi Formations of Ahwaz and Marun Oil Fields. National conference of utilization of geosciences in fundamental researches, Azad University of Tehran Shomal, (in Persian).
- Maroufi, K., Heidarifard, M.H., Azizi and F., Khani, B., 2010. Evaluation of Hydrocarbon Potential of Pabdeh Formation in Marun Oilfield using Rock-Eval 6. 1st national conference of new technologies in oil and gas industries, Azad University of Omidiyeh, (in Persian).

Projects:

- "Investigating enhanced recovery methods and improving production from the reservoirs of the Masjid-e-Soleyman", National Iranian South Oil Company (NISOC), (2021-2022).
- "Application of geochemical method for hydrocarbon reservoir monitoring, in production optimization and reservoir development with an emphasis on international experiences", Iranian Central Oil Fields Company (ICOFC), (2022).
- "Geochemical interpretation of the Asmari fluid results in the Maroon oilfield", National Iranian South Oil Company (NISOC), (2023-now).
- "Investigating Paleo-upwelling conditions during deposition of the Pabdeh Formation in the Zagros basin (South Dezful Embayment)" National Iranian South Oil Company (NISOC), (2023-now).