



Ahmad Reza Rabbani

Associate Professor  
AmirKabir University of Technology

### **Educational Records**

-Ph.D. Petroleum Geochemistry, Academy of Science , Russia

-M.Sc., Sedimentology and Sedimentary Rocks ,University of Tehran

-B.Sc., Geology , Teacher Training University ,Tehran

### **Lecturing:**

- ✓ Reservoir Geochemistry
- ✓ Petroleum Geology
- ✓ Petroleum and Advanced Organic Geochemistry
- ✓ Basin Analysis
- ✓ Stable Isotope Geochemistry
- ✓ Surface Geochemistry
- ✓ Environmental Geochemistry
- ✓ Oil and Gas Resources
- ✓ Source Rock Evaluation
- ✓ Basin Modeling
- ✓ Sedimentology and Sedimentary Rocks

### **Journal Publications**

- M.H.Saber, Ahmad Reza Rabbani, M.Ghavidel Syooki: *Hydrocarbon Potential and Palynological Study of the Latest Ordovician – Earliest Silurian Source Rock (Sarchahan Formation) in the Zagros Mountains, Southern Iran*. *Marin and Petroleum Geology*. ۲۰۱۵/۷۱, ۱۲-۲۵
- M.Asemani, A.R.Rabbani: *Oil-oil correlation by FTIR spectroscopy of asphaltene samples*. *Geosciences Journal* ۲۰۱۵
- Zahra Sadat Mashhadi, Ahmad Reza Rabbani, M.R.Kamali: *Geochemical characteristics and hydrocarbon generation modeling of the Kazhdumi (Early Cretaceous), Gurpi (Late Cretaceous) and Pabdeh (Paleogene) Formations, Iranian sector of the Persian Gulf*. *Marine and Petroleum Geology* ۰۸/۲۰۱۵
- Zahra Sadat Mashhadi, Ahmad Reza Rabbani, Mohammad Reza Kamali, Maryam Mirshahani, Ahmad Khajehzadeh: *Burial and thermal maturity modeling of the Middle Cretaceous–Early Miocene petroleum system, Iranian sector of the Persian Gulf*. *Petroleum Science* ۰۷/۲۰۱۵;
- M.H.Saberi, Ahmad Reza Rabbani: *Origin of natural gases in the Permo-Triassic reservoirs of the Coastal Fars and Iranian sector of the Persian Gulf*. *Journal of Natural Gas Science and Engineering* ۰۷/۲۰۱۵
- Z.S.Mashhadi, A.R.Rabbani: *Organic geochemistry of crude oils and Cretaceous source rocks in the Iranian sector of the Persian Gulf: An oil-oil and oil–source rock correlation study*. *International Journal of Coal Geology* ۱۴۶ (۲۰۱۵) ۱۱۸–۱۴۴



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- A Naghibi, A R Rabbani, E Dehyadegary: *A Geochemical Investigation of the CO<sub>2</sub> Injection Effect on Oil Composition in One of the Eastern Persian Gulf Fields*. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 37:1062-1070, 2010
- Ali Rajabi, Mohammad Javad Afshari Moein, Ahmad Reza Rabbani: *Improvement of petrophysical evaluation in a gas bearing carbonate reservoir—A case in Persian Gulf*. Journal of Natural Gas Science and Engineering 24:238-244. DOI:10.1016/j.jngse.2010.03.036
- A. Naghibi, E. Dehyadegary, Ahmad Reza Rabbani: *Geochemical Investigation of the Methane Injection Effect on Oil Composition in One of the Eastern Persian Gulf Fields*. Energy Sources Part A Recovery Utilization and Environmental Effects 32(6):567-570. DOI:10.1080/10967036.2011.592920
- Hani Hashemi Kiasari, Ahmad Reza Rabbani, Ali Mousavi Dehghani, Abas Qobadi: *Modeling Asphaltene Deposition Rate On To Inner Surface of Oil Production Wells (Stainless Steel) Using Novel Quartz Crystal Nanobalance Experiments*. Journal of Dispersion Science and Technology 32(1):1-4;
- Hashemi Kiasari, Ahmad Reza Rabbani, Ali Mousavi Dehghani, Abas Qoubadi: *Modeling Asphaltene/Surface Interaction Effect on the Asphaltene Deposition Rate by Using Novel Quartz Crystal Nanobalance Experiments*. Journal of Dispersion Science and Technology 31(1):1-4;
- Ahmad Reza Rabbani, Maciej J. Kotarba, Ali Reza Baniasad, Ehsan Hosseiny, Dariusz Wieclaw: *Geochemical Characteristics and Genetic Types of the Crude Oils from the Iranian Sector of the Persian Gulf*. Organic Geochemistry 31(1):1-4;
- Ahmad reza Rabbani, MH Saberi, KA Ahmadabadi: *The Age and Facies Characteristics of Persian Gulf Source Rocks*. Petroleum Science and Technology 31(3):371-378.
- Ahmad reza Rabbani, Z. Mashhadi, Z.Rezaie, S.Heydari: *Source Rock Evaluation of the Barremian to Early Aptian Gadvan Formation in the Persian Gulf (in Persian)*. Appliedgeology. 30(9):21-30.
- I. R. Kivi, H. H. Kiasari, E. Amirian, A. Rabbani, B. S. Sola: *Sensitivity Analysis to Operational Parameters of the Offset Well During Fast-SAGD Process in Naturally Fractured Reservoir*. Petroleum Science and Technology 31(1):1-4.
- A. R. Rabbani, G. Hassanzadeh, E. Dehyadegari: *Asphaltene Deposition under CO<sub>2</sub> Injection: An Experimental Study of the Bangestan Reservoir of Ahwaz Oilfield, SW Iran*. Petroleum Science and Technology - PET SCI TECHNOL. 30(1):9-10.
- F M. Moattari, A.R. Rabbani, Y. Mahdaviifar: *Estimating and Optimizing the Amount of Generated Hydrocarbon by Determining Kinetic Parameters (A, E) in Pabdeh, Gurpi, and Kazhdumi Source Rocks With an Open Pyrolysis System*. Petroleum Science and Technology 30:2306-2310.
- M. Asadpoor, A. R. Rabbani, M. Lotfpour, M. Tamimi, J. Yazdaniyan, P. Miar: *Effective Approach for Fractured Carbonate Reservoir Petrophysical Logs Interpretation in an Iranian Offshore Oil Field*. Petroleum Science and Technology 31(1):1-4.



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Kalali, Ebadi, Rabbani, Sadri Moghaddam: *Response surface methodology approach to the optimization of oil hydrocarbon polluted soil remediation using enhanced soil washing*. International Journal of Environmental Science and Technology. ۰۱/۲۰۱۱;

Ahmad reza Rabbani, F.Eghbali: *Petroleum Geochemistry and Burial History Modeling in the Azadegan Oil Field (In Persian)*. Chemical, Polymer and Material Science and Technology, Amirkabir. ۰۱/۲۰۱۰; ۷۲(۲۱): ۴۳-۴۸.

Ahmad Reza Rabbani, Rahim Bagheri Tirtashi: *Hydrocarbon Source Rock Evaluation of the Super Giant Ahwaz Oil Field, SW Iran*. Australian Journal of Basic and Applied Sciences. ۰۱/۲۰۱۰;

A. R. Rabbani: *GEOCHEMISTRY OF CRUDE OIL SAMPLES FROM THE IRANIAN SECTOR OF THE PERSIAN GULF*. Journal of Petroleum Geology ۰۷/۲۰۰۸; ۳۱(۳): ۳۰۳ - ۳۱۶.

A. R. Rabbani: *Petroleum geochemistry, offshore SE Iran*. Geochemistry International ۰۱/۲۰۰۷; ۴۰(۱۱): ۱۱۶۴-۱۱۷۲.

A. R. Rabbani, M. R. Kamali: *SOURCE ROCK EVALUATION AND PETROLEUM GEOCHEMISTRY, OFFSHORE SW IRAN*. Journal of Petroleum Geology ۰۹/۲۰۰۵; ۲۸(۴): ۴۱۳ - ۴۲۸.

E. M. Galimov and A. R. Rabbani: *Geochemical Characteristics and Origin of Natural Gas in Southern Iran*. Geochemistry International ۰۱/۲۰۰۱; ۳۹(۹): ۸۶۲-۸۷۵.

Ahmad reza Rabbani, EM.Galimov: *Geochemical identification of oil source formations in southeastern Iran (Persian Gulf)*. Geochemistry International ۱۲/۲۰۰۰; ۳۸(۱۲): ۱۱۹۸-۱۲۰۶.

## Conference Proceedings

Z S Mashhadi, A.R.Rabbani, M.R.Kamali: *Organic Geochemical Characteristics of the Cretaceous Source Rocks and Crude Oils, Iranian Sector of the Persian Gulf // ۷۷th EAGE Conference & Exhibition ۲۰۱۵, At IFEMA Madrid, Spain, ۱-۴ June ۲۰۱۵*. ۷۷th EAGE Conference & Exhibition ۲۰۱۵, IFEMA Madrid, Spain, ۱-۴ June ۲۰۱۵; ۰۵/۲۰۱۵

Z.S. Mashhadi, M.R. Kamali, Ahmad Reza Rabbani: *Source Rock Evaluation and Geochemical Characterization of Albian Kazhdumi Formation, Offshore SW Iran*. EAGE - Third EAGE Exploration Workshop, Abu Dhabi; ۰۴/۲۰۱۴

Ahmad reza Rabbani, Ms.Saberi: *Prediction of Source-Rock Facies Variations Using S/N Ratio in the Persian Gulf Oils*. ۳rd National & the 1st International Geosciences Congress ۲۰۱۴, Ahwaz. Iran; ۰۳/۲۰۱۴

Ahmad reza Rabbani, D Wieclaw, MJ Kotarba: *Origin of Oils Accumulated in Mesozoic-Cenozoic Reservoirs of the Iranian Sector of the Persian Gulf*. ۷۵th EAGE Conference & Exhibition incorporating SPE EUROPEC ۲۰۱۳; ۰۶/۲۰۱۳

Ahmad reza Rabbani, Maciej Kotarba, Dariusz wieclaw: [techrep.title].

Elham Abdolazadeh Sharghi, Pegah Roustazadeh Sheikhyousefi, Babak Bonakdarpour, Mohammad Ali Amoozegar, Ahmad Reza Rabbani: *The Use of a Submerged membrane Bioreactor for the Biological Treatment of a Synthetic Oilfield Produced Water Using an Isolated Halophilic*



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*Bacterial Consortium*. International Conference on Recycling and Reuse , Turkey, ۰۴ June ۲۰۱۲ – ۰۶ June ۲۰۱۲; ۰۶/۲۰۱۲

Elham Abdolazadeh Sharghi, Pegah Roustazadeh Sheikhyousefi, Babak Bonakdarpoura, Ahmad Reza Rabbani: [techrep.title].

V.Ershadi, T.Ebadi, Ahmad Reza Rabbani, L.Ershadi: *Reduction of set cement permeability in oil well to decrease the pollution of receptive environment using spherical nanosilica*. ۲nd International Conference on Environmental Science and Technology (ICEST ۲۰۱۱), Singapore; ۱۰/۲۰۱۱

L.Ershadi, T.Ebadi, V.Ershadi, Ahmad Reza Rabbani: [techrep.title].

H Ebadian, Ahmad Reza Rabbani, SA Aminzadeh: *Feasibility Study on CO<sub>2</sub> EOR of a Carbonated Reservoir in Southwest of Iran*. ۲rd EAGE Conference & Exhibition; ۰۵/۲۰۱۱

Maciej J. KOTARBA, Ahmad Reza Rabbani: [techrep.title].

Ahmad reza Rabbani, E. Dehyadegari: *Feasibility study of non hydrocarbon gases generation during water flooding in darquin oil field*. EAGE -First International Petroleum Conference and Exhibition, Shriaz; ۰۵/۲۰۰۹

Ahmad reza Rabbani: *the study of H<sub>2</sub>S origin in natural gas reservoirs in south of Iran*. AAPG INTERNATIONAL CONF ۲۰۰۵; ۰۱/۲۰۰۵

## Books

۱. Ahmad Reza Rabbani: *Petroleum Geology and Geochemistry of the Persian Gulf*. Edited by Tafresh University, ۱۲/۲۰۱۲; Tafresh University., ISBN: ۹۷۸-۹۶۴-۶۲۴۴-۹۴-۸
۲. Mehdi Tedayoni, Houssien Yadegari, Ahmad Reza Rabbani: *Well-Test Analysis in Oil and Gas Reservoirs*. Edited by AmirKabir University of Technology, ۰۱/۲۰۱۲; AmirKabir University of Technology., ISBN: ۹۷۸-۹۶۴-۴۶۳-۳
۳. Ahmad reza Rabbani: *H<sub>2</sub>S and Sour Oil&Gas Fields*. ۰۱/۲۰۱۱; AmirKabir University.
۴. Ahmad reza Rabbani, Ali Rangriz Shoukri: *In Search of Petroleum*. ۰۱/۲۰۰۹; Metadon Press.
۵. Ahmad reza Rabbani: *Geochemistry of Non Hydrocarbon Gases in the Natural Gas Reservoir*. Edited by AmirKabir University press, ۰۱/۲۰۰۷; AmirKabir University press., ISBN: ۹۷۸ ۹۶۴ ۴۶۳ ۳۲۰ ۱
۶. Ahmad Reza Rabbani: *Surface Organic Geochemistry*; Under Press, AmirKabir University Press.

## Industrial Projects

- Petroleum Geochemistry study of the Persian Gulf//IOOC- ۱۳۹۰-۱۳۹۲



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- Geochemical study of Yourt-E-Shah underground gas storage reservoir//NIGC ۱۳۸۰-۱۳۸۶
- Geochemical investigation on the Bangestan reservoir in the Ahvaz oil field//NISOC ۱۳۸۴-۱۳۸۵
- Geochemical study of the oil in the Asaluyeh gas field//NIOCEXP ۱۳۹۲-۱۳۹۳
- Source study of the H<sub>2</sub>S in the Iranian natural gas fields//PEDEC ۱۳۸۳-۱۳۸۴
- Feasibility study of H<sub>2</sub>S production in the gas injection as a water miscible or flooding//PEDEC ۱۳۸۴
- landfill environmental impact assessment at the environment of the Kahrizak city// ۱۳۸۶
- Geochemical studies of the rock samples from the exploration wells in the sedimentary basins of Iran//NIOCEXP ۱۳۹۳
- Geochemical studies of the rock samples from the Koped-Dagh basin area//RIPI ۱۳۹۳
- Reservoir Geochemistry of Permian-Triassic Gas Reservoirs//NIOCEXP ۱۳۸۵

### **Awards**

Ms.C., First Class Honor

Ph.d., Letters of Commendation from the minister of high education of Iran (Distinguished graduate - ۲۰۰۰-۲۰۰۱)