

# **Dheiaa Alfarge, PhD**

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## **Researchgate Profile:**

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## **Google scholar Profile:**

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## **Scopus Profile:**

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## **Publons Profile:**

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## **CURRENT POSITION**

Lecturer at College of Petroleum Engineering, AL-Ayen University, **Thi-Qar, Nasiriyah 64001, Iraq**

Researcher at University of Warith Al-Anbiyaa, **Kerbala 56001, Iraq**

Lecturer at Department of Petroleum Engineering, University of Kerbala, **Kerbala 56001, Iraq**

Assistant Chief Petroleum Engineer in Iraqi Ministry of Oil, **Najaf 54001, Iraq**

Research Advisory Board Member, SRP-Center.iq, **Kerbala 56001, Iraq**

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## **EDUCATION**

PhD in Petroleum Engineering (GPA 4.0 / 4.0) July 2018  
Missouri University of Science & Technology, Rolla, MO, USA

MS in Petroleum Engineering (GPA 4.0 / 4.0) July 2016  
Missouri University of Science & Technology, Rolla, MO, USA

B.Sc. in Petroleum Engineering (he was the valedictorian, class 2011) July 2011  
University of Baghdad, Baghdad, Iraq

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## **EMPLOYMENT**

09.2018-Current *Senior Petroleum Engineer, Oil Products Distribution Company, Najaf, Iraq*

09.2019-03.2020 *Assistant Professor, petroleum engineering department, Izmir Katip Celebi University, Izmir, Turkey.*

12.2020-Current *Adjunct Professor, University of Alayen, Thiqar, Iraq*

10.2018-Current *Adjunct Professor, University of Karbala, Karbala, Iraq*

04.2019-Current *Research Advisory Board Member, SRP-Center.iq, Karbala, Iraq*

05.2019-Current	<b><i>Iraq CMG Training Courses Instructor, Iraq</i></b>
08.2016- 08.2018	<b><i>Graduate Teaching Assistant, Missouri University of Science &amp; Technology</i></b>
08.2013- 08.2016	<b><i>Graduate Student Scholar, Higher Committee for Education Development in Iraq</i></b>
09.2012- 08.2013	<b><i>Petroleum Engineer, Oil Products Distribution Company, Najaf, Iraq</i></b>
11.2011 –09.2012	<b><i>Drilling Engineer, Maysan Oil Company, Mayasan, Iraq</i></b>

## RESEARCH INTEREST

- ***Water-Shutoff Treatments in Oil & Gas Reservoirs***
- ***Enhanced Oil Recovery***
- ***IOR Methods in Unconventional Liquids Rich Reservoirs***
- ***Numerical Simulation Methods in Reservoir Engineering***

## MEMBERSHIPS

Society of Petroleum Engineers (SPE)  
Iraqi Engineers Union (IEU)

## Courses Taught

<b><i>Integrated Reservoir Management</i></b>	<i>Alayen University, Fall, 2020</i>
<b><i>Technical English</i></b>	<i>Alayen University, Fall, 2020</i>
<b><i>Enhanced Oil Recovery I</i></b>	<i>University of Kerbala, Fall, 2020</i>
<b><i>Enhanced Oil Recovery II</i></b>	<i>University of Kerbala, Spring, 2019-current</i>
<b><i>Oil Production Systems III</i></b>	<i>University of Kerbala, Fall, 2018</i>
<b><i>Reservoir Simulation</i></b>	<i>University of Kerbala, Spring, 2019-current</i>
<b><i>Oil Production Systems III</i></b>	<i>Oil and Gas University - Spring, 2020</i>
<b><i>Oil Production Systems III</i></b>	<i>Izmir Katip Celebi University, Spring, 2020</i>
<b><i>Introduction to Petroleum Engineering</i></b>	<i>Izmir Katip Celebi University, Spring, 2020</i>
<b><i>Rock and Fluid Properties</i></b>	<i>Izmir Katip Celebi University, Spring, 2020</i>
<b><i>Applied Reservoir Simulation</i></b>	<i>Missouri S&amp; T, Spring, 2017 and 2018</i>
<b><i>Advanced Reservoir Simulation</i></b>	<i>Missouri S&amp; T, Fall, 2016 and 2017</i>

## SERVICES & HONOURS

<b><i>The Recipient of the College of Engineering and Computing PhD Scholar</i></b>	<i>Missouri S&amp; T, 2018</i>
<b><i>2nd Place Winner Graduate Research Showcase</i></b>	<i>Missouri S&amp; T, Spring 2018</i>
<b><i>Outstanding PhD Student Award in Petroleum Engineering</i></b>	<i>Missouri S&amp; T, 2018</i>
<b><i>Finalist, SPE Mid-Continent Regional Student Paper Competition</i></b>	<i>Tulsa, OK, 2018</i>
<b><i>3<sup>rd</sup> Place Winner in GGPE Student Research Showcase Colloquium</i></b>	<i>Missouri S&amp; T, 2018</i>
<b><i>Outstanding Contribution in Reviewing</i></b>	<i>Elsevier, 2018</i>
<b><i>Elsevier Journal of Petroleum Science and Engineering (Reviewer)</i></b>	<i>Elsevier, 2017-Current</i>
<b><i>Elsevier Journal of Petroleum Science (Reviewer)</i></b>	<i>Elsevier, 2018-Current</i>
<b><i>Finalist, 3MT Competition Student</i></b>	<i>Missouri S&amp; T, 2017</i>
<b><i>Finalist, SPE Mid-Continent Regional Student Paper Competition</i></b>	<i>Richardson, TX, 2017</i>
<b><i>MST Petrobowl Team Member</i></b>	<i>Austin, TX, 2016</i>
<b><i>MST Petrobowl Team Member</i></b>	<i>Denver, CO, 2017</i>
<b><i>A Certificate from TOTAL Company in Integrated Reservoirs Management</i></b>	<i>Turkey, 2010</i>

## PRESENTATIONS GIVEN

<i>SPE Improved Oil Recovery Conference</i>	Tulsa, OK, April-2018
<i>SPE Improved Oil Recovery Conference</i>	Tulsa, OK, April-2018
<i>SPE Canada Unconventional Resources Conference</i>	Calgary, March-2018
<i>Missouri University of Science and Technology 3MT Competition</i>	Missouri, December-2017
<i>Abu Dhabi International Petroleum Exhibition &amp; Conference</i>	Abu Dhabi, UAE, November,2017
<i>SPE Kuwait Oil &amp; Gas Show and Conference</i>	Kuwait City, Kuwait, October-2017
<i>Carbon Management Technology Conference</i>	Houston, Texas, July- 2017
<i>SPE Western Regional Meeting</i>	Bakersfield, California, April-2017
<i>SPE Kingdom of Saudi Arabia Annual Technical Symposium</i>	Saudi Arabia, April- 2017

## SELECTED PUBLICATIONS

### Book

1. August 2020. Elsevier.  
**Book Title:** *Fundamentals of Enhanced Oil Recovery Methods for Unconventional Oil Reservoirs, Volume 67.* Paperback ISBN: 9780128183434.

### THESIS

2. September 2018. **(PhD) Dissertation.**  
**Title:** *Integrated Study on the Applicability of CO<sub>2</sub>-EOR in Unconventional Liquids Rich Reservoirs*  
**Supervisor:** Dr. Mingzhen Wei.
3. November 2016. **(MS) Thesis.**  
**Title:** *Study on the Applicability of Relative Permeability Modifiers for Water Shut Off Using Numerical Simulation*  
**Supervisor:** Dr. Baojun Bai.

### SELECTED PUBLISHED PAPERS

1. Shakir, A., Abdulhameed, R.F., Hilal, H.A., **Alfarge, D.** & Aljarah, A. (2023). Factors impacting the performance of polymer-based EOR in oil reservoirs. Chem. Pap. (2023). <https://doi.org/10.1007/s11696-023-02824-1>.
2. Abdulridha, H.L., Abdulaziz, A.M., Khalil, A.A., *Alhussainy, S., Abd Askar, A.S., Dahab, A.A., Alfarge, D.* (2023). Study on Uncertainty Analysis for Drilling Engineering Applications: Wellbore Stability Assessments. *Arab J Sci Eng* **47**, 11687–11698 (2022). <https://doi.org/10.1007/s13369-021-06389-7>.
3. Al-Yaseri, A., Yekeen, N., Al-Mukainah, H.S., Kakati, A., **Alfarge, D.**, Myers, M. (2022). Rock-Wettability Impact on CO<sub>2</sub>-Carbonate Rock Interaction and the Attendant Effects on CO<sub>2</sub>Storage in Carbonate Reservoirs, *Journal of Natural Gas Science and Engineering*, Volume 104, 2022,104664,ISSN 1875-5100, <https://doi.org/10.1016/j.jngse.2022.104664>.

- 4.** Dheyauldeen, A., Alkhafaji, H., **Alfarge, D.**, Elgmati, A., Falih, K. T., Alali, N. (2022). Using Agarwal analytical approach with superposition rate and time solutions to analyze multi and single well systems, *Journal of Petroleum Science and Engineering*, Volume 215, Part B, 2022, 110693, ISSN 0920-4105, <https://doi.org/10.1016/j.petrol.2022.110693>.
- 5.** Dheyauldeen, A., Alkhafaji, H., Mardan, Z.A., **Alfarge, D.**, Al-Fatlawi, O., &Hossain, M. Effect of well scheduling and pattern on project development management in unconventional tight gas reservoirs. (2022). *Arab J Geosci* 15, 1241 (2022). <https://doi.org/10.1007/s12517-022-10500-z>.
- 6.** Allawi, R., Al-Jawad, M. & **Alfarge, D.** New empirical equation to predict the pore pressure in oil reservoirs. (2022). *Arab J Geosci* 15, 701 (2022). <https://doi.org/10.1007/s12517-022-09961-z>.
- 7.** Dheyauldeen, A., Alkhafaji, H., Mardan, Z.A., **Alfarge, D.**, Al-Fatlawi, O., &Hossain, M. (2022). Performance evaluation of analytical methods in linear flow data for hydraulically-fractured gas wells, *Journal of Petroleum Science and Engineering*, Volume 208, Part B, 2022, 109467, ISSN 0920-4105, <https://doi.org/10.1016/j.petrol.2021.109467>.
- 8.** **Alfarge, D.**, Aljarah, A., Wei, M., Bai, B., Alali, N., Al-Shibly, A., Alameedy, U. (2021). Factors Affecting Gel Strength Design for Conformance Control: An Integrated Investigation, *Journal of Petroleum Science and Engineering*, 2021,108711 ISSN 0920-4105, <https://doi.org/10.1016/j.petrol.2021.108711>.
- 9.** **Alfarge, D.**, Wei, M., Bai, B. (2019, January). Evaluating the performance of hydraulic-fractures in unconventional reservoirs using production data: Comprehensive review. *Journal of Natural Gas Science and Engineering*, Volume 61, 2019, Pages 133-141, ISSN 1875-5100, <https://doi.org/10.1016/j.jngse.2018.11.002>.
- 10.** **Alfarge, D.**, Wei, M., Bai, B., & Almansour, A. (2018, August). Numerical simulation study to understand the performance of RPM gels in water-shutoff treatments, *Journal of Petroleum Science and Engineering*, 2018, ISSN 0920-4105, <https://doi.org/10.1016/j.petrol.2018.07.082>.
- 11.** **Alfarge, D.**, Wei, M., and Bai, B. (2018). CO<sub>2</sub>-EOR mechanisms in huff-n-puff operations in shale oil reservoirs based on history matching results, *Fuel*, Volume 226, 2018, Pages 112-120, ISSN 0016-2361, <https://doi.org/10.1016/j.fuel.2018.04.012>.
- 12.** **Alfarge, D.**, Wei, M., Bai, B., & Alsaba, M. (2018). Lessons learned from IOR pilots in Bakken formation by using numerical simulation, *Journal of Petroleum Science and Engineering*, Volume 171, 2018, Pages 1-15, ISSN 0920-4105, <https://doi.org/10.1016/j.petrol.2018.07.025>.
- 13.** **Alfarge, D.**, Wei, M., and Bai, B. (2018). Data Analysis for CO<sub>2</sub>-EOR in Shale-Oil Reservoirs Based on a Laboratory Database. *Journal of Petroleum Science and Engineering*. <https://doi.org/10.1016/j.petrol.2017.10.087>.

- 14.** **Alfarge, D.,** Wei, M., & Bai, B. (2018). A Review of Improved-Oil-Recovery Methods in North American Unconventional Reservoirs. SPE JPT (Volume: 70, Issue: 1) Edited by Carpenter, C.
- 15.** **Alfarge, D.,** Wei, M., & Bai, B. (2017, July 7). Factors Affecting CO<sub>2</sub>-EOR in Shale-Oil Reservoirs: Numerical Simulation Study and Pilot Tests. Journal of Energy & Fuel. DOI: 10.1021/acs.energyfuels.7b01623.
- 16.** **Alfarge, D.,** Wei, M., & Bai, B. (2017). Numerical Simulation Study on Miscible-EOR Techniques for Improving Oil Recovery in Shale-Oil Reservoirs. Journal of Petroleum Exploration and Production Technology. DOI: 10.1007/s13202-017-0382-7.
- 17.** **Alfarge, D.,** Wei, M., and Bai, B. 2017. Numerical simulation study of factors affecting relative permeability modification for water-shutoff treatments. *Fuel Journal*, Volume 207, 2017, Pages 226-239, ISSN 0016-2361, <https://doi.org/10.1016/j.fuel.2017.06.041>.
- 18.** **Alfarge, D.,** Wei, M., Bai, B., & Alsaba, M. (2018). Miscible Gases Based EOR in Unconventional Liquids Rich Reservoirs: What We Can Learn. Society of Petroleum Engineers. doi:10.2118/193748-MS.
- 19.** **Alfarge, D.,** Wei, M., Bai, B., & Almansour, A. (2018, August). Numerical Simulation Study on the Applicability of Relative Permeability Modifiers for Water-Shutoff in Oil Production Wells. Society of Petroleum Engineers. doi:10.2118/192414-MS.
- 20.** **Alfarge, D.,** Wei, M., & Bai, B. (2017, April 23). IOR Methods in Unconventional Reservoirs of North America: Comprehensive Review. Society of Petroleum Engineers. doi:10.2118/185640-MS.
- 21.** **Alfarge, D.,** Wei, M., Bai, B., & Almansour, A. (2017, June 1). Optimizing Injector-Producer Spacing for CO<sub>2</sub> Injection in Unconventional Reservoirs of North America. Society of Petroleum Engineers. doi:10.2118/188002-MS.
- 22.** **Alfarge, D.,** Wei, M., Bai, B., & Almansour, A. (2017, June 1). Effect of Molecular-Diffusion Mechanism on CO<sub>2</sub> Huff-n-Puff Process in Shale-Oil Reservoirs. Society of Petroleum Engineers. doi:10.2118/188003-MS.
- 23.** **Alfarge, D.,** Wei, M., & Bai, B. (2017). Comparative Study for CO<sub>2</sub>-EOR and Natural Gases Injection-Techniques for Improving Oil Recovery in Unconventional Oil Reservoirs. Carbon Management Technology Conference. doi:10.7122/485175-MS.
- 24.** **Alfarge, D.,** Wei, M., & Bai, B. (2017). Applicability of CO<sub>2</sub>-EOR in Shale-Oil Reservoirs Using Diagnostic Plots. Carbon Management Technology Conference. doi:10.7122/502143-MS.

- 25. Alfarge, D.**, Wei, M., & Bai, B. (2017). Feasibility of CO<sub>2</sub>-EOR in Shale-Oil Reservoirs: Numerical Simulation Study and Pilot Tests. Carbon Management Technology Conference. doi:10.7122/485111-MS.
- 26. Alfarge, D.**, Wei, M., Bai, B., & Alsaba, M. (2017). Analysis of IOR Pilots in Bakken Formation by Using Numerical Simulation. Society of Petroleum Engineers. doi:10.2118/188633-MS.
- 27. Alfarge, D.**, Wei, M., Bai, B., & Alsaba, M. (2017). Selection Criteria for Miscible-Gases to Enhance Oil Recovery in Unconventional Reservoirs of North America. Society of Petroleum Engineers. doi:10.2118/187576-MS.
- 28. Alfarge, D.**, Wei, M., & Bai, B. (2018). Mechanistic Study for the Applicability of CO<sub>2</sub>-EOR in Unconventional Liquids Rich Reservoirs. Society of Petroleum Engineers. doi:10.2118/190277-MS.
- 29. Alfarge, D.**, Wei, M., & Bai, B. (2018). Integrated Investigation of CO<sub>2</sub>-EOR Mechanisms in Huff-n-Puff Operations Based on History Matching Results. Society of Petroleum Engineers. doi:10.2118/190234-MS.
- 30.** Alhuraishawy, A., **Alfarge, D.**, Wei, M., & Bai, B. (2018). Influencing Factors Analysis in the Combination of Gel Treatment and Low Salinity Water Flooding Using Sensitivity Analysis. Society of Petroleum Engineers. DOI:10.2118/190357-MS.
- 31. Alfarge, D.**, Wei, M., & Bai, B., (2017). A Parametric Study to Compare Different Miscible Gases to Enhance Oil Recovery in Unconventional Liquids Rich Reservoirs. Society of Petroleum Engineers. doi:10.2118/189785-MS.

### **PUBLISHED BOOK CHAPTERS**

- 1. Alfarge, D.**, Wei, M., Bai, B. (2020). Comparative analysis between CO<sub>2</sub>-EOR mechanisms in conventional reservoirs versus shale and tight reservoirs. *Developments in Petroleum Science*, 2020, 67, pp. 45–63.
- 2. Alfarge, D.**, Wei, M., Bai, B. (2020). The effects of nanopore confinement on different enhanced oil recovery methods. *Developments in Petroleum Science*, 2020, 67, pp. 201–216.
- 3. Alfarge, D.**, Wei, M., Bai, B. (2020). Selection criteria for miscible gases-based EOR in unconventional liquid-rich reservoirs (ULR). *Developments in Petroleum Science*, 2020, 67, pp. 165–183.
- 4. Alfarge, D.**, Wei, M., Bai, B. (2020). The impacts of geomechanics coupling on CO<sub>2</sub>-EOR. *Developments in Petroleum Science*, 2020, 67, pp. 217–243.
- 5. Alfarge, D.**, Wei, M., Bai, B. (2020). CO<sub>2</sub>-EOR in shale-oil reservoirs based on a laboratory database. *Developments in Petroleum Science*, 2020, 67, pp. 15–44.

- 6. Alfarge, D.,** Wei, M., Bai, B. (2020). Chemical enhanced oil recovery methods for unconventional reservoirs. *Developments in Petroleum Science*, 2020, 67, pp. 141–163.
- 7. Alfarge, D.,** Wei, M., Bai, B. (2020). Comparative and optimization of CO<sub>2</sub> and natural gas EOR methods. *Developments in Petroleum Science*, 2020, 67, pp. 245–265.
- 8. Alfarge, D.,** Wei, M., Bai, B. (2020). Other enhanced oil recovery methods for unconventional reservoirs. *Developments in Petroleum Science*, 2020, 67, pp. 185–199.
- 9. Alfarge, D.,** Wei, M., Bai, B. (2020). Introduction to shale and tight oil reservoirs. *Developments in Petroleum Science*, 2020, 67, pp. 1–13.
- 10. Alfarge, D.,** Wei, M., Bai, B. (2020). Natural gas-based EOR versus CO<sub>2</sub>-EOR in shale and tight oil reservoirs. *Developments in Petroleum Science*, 2020, 67, pp. 65–85.
- 11. Alfarge, D.,** Wei, M., Bai, B. (2020). Water injection in unconventional reservoirs. *Developments in Petroleum Science*, 2020, 67, pp. 113–140.
- 12. Alfarge, D.,** Wei, M., Bai, B. (2020). Air injection in shale and tight oil reservoirs. *Developments in Petroleum Science*, 2020, 67, pp. 87–111.

## MANUSCRIPT REVIEWED

### A-Journal of Petroleum Science and Engineering

- 1- PETROL23337R1:** Numerical Simulation of the Feasibility of Supercritical CO<sub>2</sub> Storage and Enhanced Shale Gas Recovery Considering Complex Fracture Networks.
- 2- PETROL23337:** Numerical Simulation of the Feasibility of Supercritical CO<sub>2</sub> Storage and Enhanced Shale Gas Recovery Considering Complex Fracture Networks.
- 3- PETROL17902:** Comparative study on pre-gas injection in low pressure Chang 7 tight oil.
- 4- PETROL17081R1:** Microbially-induced Calcium Carbonate Plugging for Enhanced Oil Recovery.
- 5- PETROL17081:** Microbially-induced Calcium Carbonate Plugging for Enhanced Oil Recovery.
- 6- PETROL15576R2:** A Comparative Study of CO<sub>2</sub> and N<sub>2</sub> Huff-n-Puff EOR Performance in Shale Oil Production.
- 7- PETROL15576R1:** A Comparative Study of CO<sub>2</sub> and N<sub>2</sub> Huff-n-Puff EOR Performance in Shale Oil Production.
- 8- PETROL15921:** Investigation of molecular diffusion and adsorption on CO<sub>2</sub> Huff-n-Puff process in Eagle Ford tight oil reservoirs.
- 9- PETROL15576:** A Comparative Study of CO<sub>2</sub> and N<sub>2</sub> Huff-n-Puff EOR Performance in Shale Oil Production.

- 10- PETROL13581:** The effects of boundary layer and fracture networks on the water huff-n-puff process of tight oil reservoirs.
- 11- PETROL12955:** Discrete fracture network modelling and gel injection simulation in fractured carbonates: A Case Study of Raman Field in Turkey.
- 12- PETROL12974:** Simulation Study of Produced Gas Re-injection for CO2 Flooding in Ultra-low Permeability Reservoir.
- 13- PETROL11568R1:** Chemical EOR characterization: insights on the value of production data and pondered data acquisition.
- 14- PETROL12421:** Robust Implementations of the 3D-EDFM Algorithm for Reservoir Simulation with Complicated Hydraulic Fractures.
- 15- PETROL11330R1:** Performance of CO2 flooding in a heterogeneous oil reservoir using Autonomous Inflow Control.
- 16- PETROL12217:** Experimental study on the adaptation of water alternating gas flooding in ultra-low permeability reservoir.
- 17- PETROL11568:** Chemical EOR characterization: insights on the value of production data and pondered data acquisition.
- 18- PETROL11246:** Simulation of the THAI Heavy Oil Recovery Process in Reservoir Underlain by Bottom Water.
- 19- PETROL11643:** Comparisons of Residual Oil Recovery by Different Types of Surfactant and Polymer Flooding in Five-spot Wells Setup.
- 20- PETROL11330:** Performance of CO2 flooding in a heterogeneous oil reservoir using Autonomous Inflow Control.

#### **B-Journal of SPE Reservoir Evaluation and Engineering**

- 1- **RE-1019-0006:** Industry-First Hydrocarbon-Foam EOR Pilot in an Unconventional Reservoir: Design, Implementation and Performance Analysis.
- 2- **RE-0419-0014:** Study of Massive Water Huff-n-Puff Technology in Tight Oil Field and Its Field Application.
- 3- **RE-1218-0003:** Study of Massive Water Huff-n-Puff Technology in Tight Oil Field and Its Field Application.

#### **C- Fuel Journal**

- 1- **JFUE-D-21-01556:** Assessment of Improved Oil Recovery by Osmotic Pressure in Unconventional Reservoirs: Application to Niobrara Chalk and Codell Sandstone.
- 2- **JFUE-D-21-01656:** Experimental study on the feasibility of nitrogen huff-n-puff in a heavy oil reservoir.
- 3- **JFUE-D-20-08519R1:** Potential of Dimethyl Ether as an Additive in CO2 for Shale Oil Recovery.
- 4- **JFUE-D-20-08519:** Potential of Dimethyl Ether as an Additive in CO2 for Shale Oil Recovery.
- 5- **JFUE-D-19-04879:** A numerical and experimental study of enhanced shale-oil recovery by CO2 miscible displacement with NM.

#### **D-Journal of Petroleum Science and Technology**



- 1- **LPET-2021-0115**: Analysis of the influence of acidification on relevant mechanical parameters of oil shale fracturing.
- 2- **LPET-2021-0044**: Unconventional Oil Resources in the United States and their Recovery Applications.
- 3- **LPET-2020-0886**: Evaluation of CO<sub>2</sub> injection in shale gas reservoirs based on numerical simulation.

#### **E-Journal of Energy& Fuels**

- 1- **ef-2019-03423v**: Enhanced shale oil recovery by the huff and puff method using CO<sub>2</sub> and cosolvent mixed fluids.

#### **F-Journal of Petroleum Science**

- 1- **PETROSCI-2021-0079**: Lag times in Toe-to-Heel Air Injection (THAI) operations explains underlying heavy oil production mechanisms.
- 2- **PETROSCI-2017-0459**: Exploitation of Fractured Shale Oil Resources by Cyclic CO<sub>2</sub> injection Method

### **REFERENCES**

1. **Dr. Baojun Bai**  
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**6. Dr. Ralph Flori**

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