



Name: Dr. Mortadha Turki Ibrahim Alsaba
Rank: Associate Professor
Title: Head of Petroleum Engineering Department

Personal Information

Nationality: Saudi Arabian
AU Joining Date: 21 Aug 2016
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Professional Information

Education:	Qualification: Doctorate Major: Petroleum Engineering College/University: Missouri University of Science & Technology Year: 2015
	Qualification: Masters Major: Petroleum Engineering College/University: Missouri University of Science & Technology Year: 2012
	Qualification: Bachelor Major: Petroleum Engineering College/University: London South Bank University, London, UK Year: 2007
Specialization:	Drilling Engineering Drilling Fluids & Lost Circulation Environmental-Friendly Drilling Fluid Additives Development Nano-Drilling Fluids
Current Academic Position:	Associate Professor – Petroleum Engineering
Current Professional Positions:	Head of Petroleum Engineering Department

Previous Administrative Position Held:	COE Labs Manager Aug 2018 – Aug 2020 Acting Head – Petroleum Engineering – Summer 2017
Previous Academic Positions Held:	<u>Assistant Professor</u> AU Aug 2017 - Aug 2022 <u>Lecturer</u> AU Aug 2016 – Aug 2017 <u>Instructor</u> Missouri University of Science and Technology. Fall 2014 <u>Teaching assistant</u> Missouri University of Science and Technology. 2011 - 2013
Fellowships And Honors:	- Technical Program Committee - Drilling Domain for the 2025 SPE ADIPEC. - Judge in the Student Paper Contest at the 2025 SPE/IADC Conference in Abu Dhabi. - Technical Program Committee - Drilling Domain for the 2024 SPE ADIPEC. - Technical Program Committee - Drilling Domain for the 2023 SPE ADIPEC. - 2nd and 3rd Place in the Ministry of Oil Competition “Oil Innovates 2”, March 2023 - Technical Program Committee - Drilling Domain for the 2022 SPE ADIPEC. - Planning Committee Member for the 2022 Ministry of Oil Hackathon. - Member of Editorial Board of Petroleum Research (Term 2022 – 2025), which is an Elsevier Journal. - 3rd Place in the SPE ADIPEC 2021 University Program Competition, November 2021 - Engineers Australia Chartered Professional Engineer (Since 2019) - 3rd Place in the 2nd KOC's Science Innovation Competition, KOC (Jan 2020) - Engineering Excellence Award, Silver Award Research Category, 10th Technological Innovations Conference & Exposition (Nov 2019) - AU Teaching Excellence Award Recipient (Fall 2019) - 1st Place in the 1st KOC's Science Innovation Competition, KOC (Jan 2019) - AU Teaching Excellence Award Nominee (Fall 2018) - Technical committee member, 2019 SPE Kuwait Oil & Gas Show - Young Professional Mentor, 2019 SPE ADIPEC University Program - Judging Panel, 2019 SPE ADIPEC University Program - Panelist, 1st Teaching & Learning Excellence Forum at AU, 2019 - Technical committee member, 2018 SPE Heavy Oil Conference & Exhibition - Reviewer for Elsevier Book Proposals (4 Books up to date) - Reviewer in the below listed journals: • SPE Journal • Elsevier Journal of Natural Gas Science and Engineering • Elsevier Journal of Natural Gas Science and Engineering • Elsevier Journal of Petroleum Science and Engineering • Elsevier International Journal of Rock Mechanics and Mining Sciences • Elsevier Upstream Oil and Gas Technology • Elsevier Journal of Cleaner Production • Elsevier Egyptian Journal of Petroleum Engineering

	- Elsevier Journal of King Saud University – Science - ASME Journal of Energy Resources Technology - SPE Drilling Best Practice Workshop (Scribe), Dubai, UAE, 2016 - Outstanding Graduate Teaching Assistant, Missouri S& T, 2015 1st Place Winner, Student Poster Competition, Missouri S& T, 2015 2ndPlace Winner, Student Poster Competition, Missouri S& T, 2014 - AADE Student Chapter (Secretary), Missouri S& T, 2014 - SPE Lost Circulation Workshop (Scribe), Dubai, UAE, 2014 - SPE Wellbore Strengthening Workshop (Volunteer) Dallas, TX, 2013
Teaching Experience:	Associate Professor AU Aug 2022 – Current Assistant Professor AU Aug 2017 – Aug 2022 Lecturer AU Aug 2016 – Aug 2017 Instructor Missouri University of Science and Technology. - Fall 2014, PET ENG 4210 Drilling and Well Design. Teaching assistant Missouri University of Science and Technology. - Fall 2013, PET ENG 4210 Drilling and Well Design - Fall 2012, PET ENG 4210 Drilling and Well Design - Spring 2012, PET ENG 3520 Petroleum Reservoir Engineering - Fall 2011, PET ENG 2510 Properties of Hydrocarbon Fluids
Industrial And Technical Experience:	Drilling Fluid Engineer 04.2008 –04.2010 Halliburton Baroid, Dammam, Saudi Arabia
Research Interest:	- Prevention and Mitigation of Lost Circulation Events - Laboratory Evaluation of Wellbore Strengthening Techniques - Drilling Fluid Design and Optimization - Environmental Friendly Drilling Fluid Additives Development - Application of Nanoparticles in improving drilling fluids
Research Grants:	- PI of an AU internal funded Research Project titled " Experimental Investigation of Using Tires Waste as a Fluid Loss Additive for Highly permeable Formations" (KWD 1,300) - Co-I of a KFAS (Kuwait Foundation for the Advancement of Science) Funded Research Project titled " Autonomous and portable measuring system for rheological properties of Newtonian and Non-Newtonian fluids" (KWD 7,700) - Co-I of an internal funded Research Project titled " Experimental Investigation and Machine Learning Algorithms Modeling of Horizontal Wellbore Cleanout by Fibrous Sweep Fluids " (KWD 1,200) - Co-I of an internal funded Research Project titled " Design and Digitalization of Modern Prototype Drilling Rig Systems for Teaching and Research " (KWD 1,200)

	- Collaboration/ Consulting with Sappi South Africa Ltd. to evaluate the effectiveness of a waste material (Chrome-Free Lignosulfonate) in being used as a drilling fluid additive (KWD 1980)
Research and Publications including Journal and Books:	1. Mohammed F Al Dushaishi, Ahmed Abbas, Mortadha Alsaba, Jarrett Wise. 2025. "Drilling Optimization Using Artificial Neural Networks and Empirical Models". ChemEngineering. 2. Fatima R Salih, Farqad A Hadi, Mortadha T Alsaba. 2024. "Analysis of Surge and Swab ECD of Herschel Bulkley Fluids in Rumaila Iraqi Oil Field". Iraqi Journal of Chemical and Petroleum Engineering. 3. Kingsley Amadi, Ibiye Iyalla, Radhakrishna Prabhu, Mortadha Alsaba, Marwa Waly. 2023. "Development of predictive optimization model for autonomous rotary drilling system using machine learning approach". Journal of Petroleum Exploration and Production Technology. 4. Seyed Morteza Mirabbasi, Mohammad Javad Ameri, Mortadha Alsaba*, Mohsen Karami, and Amir Zargarbashi. 2022. "The Evolution of Lost Circulation Prevention and Mitigation Based on Wellbore Strengthening Theory: A Review on Experimental Issues". Journal of Petroleum Science and Engineering. (4.346 Impact Factor) 5. Abbas, A. Alsaba, M., Al Dushaishi, M. 2021. "Comprehensive experimental investigation of hole cleaning performance in horizontal wells including the effects of drillstring eccentricity, pipe rotation and cuttings size". ASME Journal of Energy Resources Technology. (2.903 Impact Factor) 6. Al Dushaishi, M., Alsaba, M., Abbas, A., and Tariq Tashtoush. 2021. "Stick-slip investigation of dual drilling and reaming bottom hole assembly". Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science. (1.762 Impact Factor) 7. Abbas, A. Alsaba, M., Al Dushaishi, M. 2021. "Improving hole cleaning in horizontal wells by using nanocomposite water-based mud". Journal of Petroleum Science and Engineering. (3.706 Impact Factor) 8. Bani Mustafa, A., Abbas, A., Alsaba, M., Alameen, M. 2021. "Improving drilling performance through optimizing controllable drilling parameters". Journal of Petroleum Exploration and Production Technology. (2.116 Impact Factor) 9. Al Dushaishi, M., Abbas, A. Alsaba, M., Abbas, H., Dawood, J. 2020. "Data-driven stuck pipe prediction and remedies". Upstream Oil and Gas Technology – Elsevier 10. Alsaba, M., Al Dushaishi, M., Abbas, A. 2020. "Application of Nano Water-Based Drilling Fluid in Improving Hole Cleaning". SN Applied Science – Springer. 11. Alsaba, M., Al Dushaishi, M., Abbas, A. 2020. "A Comprehensive Review of Nanoparticles Applications in the Oil and Gas Industry Journal of Petroleum Exploration and Production Technology. (2.116 Impact Factor) 12. Al-Saedi, H., Flori, R., and Alsaba, M. 2020. "Investigation of Smart Waterflooding in Sandstone Reservoirs: Experimental and Simulation Study Part 2". SPE Journal. (3.372 Impact Factor) 13. Alsaba, M., Al Marshad, A., Abbas, A., Abdulkareem, T., Al-Shammary, A., Al-Ajmi, M., and Emad Kebeish. 2019. "Laboratory evaluation to assess the effectiveness of inhibitive nano-water-based drilling fluids for Zubair shale

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- formation". Journal of Petroleum Exploration and Production Technology. (2.116 Impact Factor)
14. Ahmed K. Abbas, Ralph E. Flori, **Alsaba, M.** 2019. "Stability Analysis of Highly Deviated Boreholes to Minimize Drilling Risks and Nonproductive Time". ASME Journal of Energy Resources Technology. (2.903 Impact Factor)
 15. Ahmed K. Abbas, Salih Rushdi, **Alsaba, M.**, Mohammed F. Al Dushaishi. 2019. "Drilling Rate of Penetration Prediction of High-Angled Wells Using Artificial Neural Networks". ASME Journal of Energy Resources Technology. (2.903 Impact Factor)
 16. Jeennakorn, M., **Alsaba, M.**, Nygaard, R., Saasen, A., and Nes, O. 2018. "The effect of testing conditions on the performance of lost circulation materials: understandable sealing mechanism". Journal of Petroleum Exploration and Production Technology. (2.116 Impact Factor)
 17. Ahmed K. Abbas, Ralph E. Flori, **Alsaba, M.**, Haider Dahm Ethar H.K. Alkamil 2018. "Integrated approach using core analysis and wireline measurement to estimate rock mechanical properties of the Zubair Reservoir, Southern Iraq". Journal of Petroleum Science and Engineering. Volume 166, July 2018, Pages 406-419. (4.346 Impact Factor)
 18. Husam H. Alkinani, Al-Hameedi, A., Shari Dunn-Norman, Ralph E. Flori, Hilgedick, S., Al-Maliki, M. Alshaw, Y., **Alsaba, M.**, Ahmed Amer. 2018. "Examination of the relationship between rate of penetration and mud weight based on unconfined compressive strength of the rock". Journal of King Saud University – Science, Available online 1 August 2018. (3.74 Impact Factor)
 19. Ahmed K. Abbas, Ralph E. Flori, Ahmed AL-Anssari, **Alsaba, M.** 2018 "Laboratory analysis to assess shale stability for the Zubair Formation, Southern Iraq". Journal of Natural Gas Science and Engineering. Volume 56, August 2018, Pages 315-323. (4.965 Impact Factor)
 20. Al-Hameedi, A., Husam H. Alkinani, Shari Dunn-Norman, Ralph E. Flori, Hilgedick, S., Amer, A., **Alsaba, M.** 2018. "Mud Loss Estimation Using Machine Learning Approach". Journal of Petroleum Exploration and Production Technology. (2.116 Impact Factor)
 21. Husam H. Alkinani, Al-Hameedi, A., Shari Dunn-Norman, Ralph E. Flori, **Alsaba, M.**, Ahmed Amer, Hilgedick, S. 2018. "Using data mining to stop or mitigate lost circulation". Journal of Petroleum Science and Engineering. (4.346 Impact Factor)
 22. Ahmed K. Abbas, Ralph E. Flori, **Alsaba, M.** 2018. "Estimating rock mechanical properties of the Zubair shale formation using a sonic wireline log and core analysis". Journal of Natural Gas Science and Engineering. Volume 53, May 2018, Pages 359-369. (4.965 Impact Factor)
 23. Dheiaa Alfarge, Mingzhen Wei, Baojun Bai, **Alsaba, M.** 2018. "Lessons learned from IOR pilots in Bakken formation by using numerical simulation". Journal of Petroleum Science and Engineering, Volume 171, December 2018, Pages 1-15. (4.346 Impact Factor)
 24. **Alsaba, M.**, Al Dushaishi, M., Nygaard, R., Nes, O., and Saasen, A. 2017. "Updated Criterion to Select Particle Size Distribution of Lost Circulation Materials for an Effective Fracture Sealing". Journal of Petroleum Science and Engineering. Volume 149, 20 January 2017, Pages 641–648. (4.346 Impact Factor)
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	25. Aldhaheri, M., Wei, M., Bai, B., <u>Alsaba, M.</u>, 2017. "Development of machine learning methodology for polymer gels screening for injection wells". Journal of Petroleum Science and Engineering. Volume 151, March 2017, Pages 77–93. (4.346 Impact Factor) 26. <u>Alsaba, M.</u>, Nygaard, R., Saasen, A., and Nes, O. 2016. "Experimental Investigation of Fracture Width Limitations of Granular Lost Circulation Treatments". Journal of Petroleum Exploration and Production Technology. (2.116 Impact Factor) 27. Contreras, O., <u>Alsaba, M.</u>, Hareland, G., Husein, M., and Nygaard, R. 2016. "Effect on Fracture Pressure by adding Nanoparticles to a Non- Aqueous drilling fluid for permeable formations". Journal of Energy Resources Technology. (2.903 Impact Factor) 28. Rahimi, R., <u>Alsaba, M.</u>, Nygaard, R. 2016. "Analysis of analytical fracture models for wellbore strengthening applications: An experimental approach" Journal of Natural Gas Science and Engineering. Volume 36, Part A, November 2016, Pages 865–874. (4.965 Impact Factor)
Paper Presentations at Professional Conferences:	1. Elgaddafi, R. M., Amadi, K., Biltayib, B. M., Al Saba, M. T., Omar, M., Dashti, A., Alali, M., and M. Alabdullah. 2025. Towards Autonomous Rotary Drilling System: A Robust Rate of Penetration Model for Drilling Operation Using Artificial Intelligence. SPE-224993-MS. 2. Jean H. El Achkar, Mortadha Alsaba. 2024. Dynamic Integration of Sustainability And Climate Change In Engineering Curricula Via CDIO. Proceedings of the 20th International CDIO Conference. 3. Amadi, K. W., Alsaba, M. T., Iyalla, I., Farhat, M. H., Bitayib, B. M., and J. Ugoyah. 2024. Enhancing PDC Bit Performance Analysis Through Reverse Engineering and Finite Element Methods in Forensic Study.SPE-221588-MS. 4. Achkar, J. El, Malhas, R., and M. Alsaba. 2024. Innovative Produced Water Management: A Nexus Approach for Sustainable Oil and Gas Industry - A Critical Review.SPE-218994-MS. 5. Amadi, K. W., Alsaba, M. T., El Achkar, J. H., and R. M Elgaddafi. 2024. AI-Driven Green Optimization in Well Construction: Carbon Emission Management Through Technical Limit Performance Benchmarking. SPE-219214-MS. 6. Alsaba, M., Elgaddafi, R., Ismael, A., Marake, T., and A. Hersi. 2024. Laboratory Evaluation to Assess the Performance of a New Eco-Friendly Drilling Fluid Additive. SPE-218758-MS. 7. RM Elgaddafi, MT Al Saba, R Ahmed, M Omar, B Biltayib, A Almarshad. 2024. Application of Machine Learning Method for Modeling Settling Behavior of a Spherical Particle in Fibrous Drilling Fluids. SPE-218631-MS. 8. KW Amadi, MT Alsaba, I Iyalla, R Prabhu, RM Elgaddafi. 2023. Machine Learning Techniques for Real-Time Prediction of Essential Rock Properties Whilst Drilling. SPE-217113-MS. 9. RM Elgaddafi, R Ahmed, S Salehi, MT Alsaba, BM Biltayib, CC Ikeokwu, KW Amadi. 2023. Modeling Two-Phase Flow in Vertical and Deviated Wellbores Using Machine Learning Method. SPE-217116-MS. 10. RM Elgaddafi, M Al Saba, A Almarshad, K Amadi. 2023. The Application of Recycled Auto-Tires Rubber as an Effective Drilling Fluid Additive: Towards a Sustainable Oil and Gas Industry. SPE-SPE-214525-MS. 11. Kingsley Williams Amadi, Ibiye Iyalla, Prabhua Radhakrishna, Mortadha Al Saba, Marwa Mustapha Waly. 2022. Continuous Dynamic Drill-Off Test

- Whilst Drilling Using Reinforcement Learning in Autonomous Rotary Drilling System. SPE-SPE- 211723-MS.
12. Jean H El Achkar, Abrar Ben Husain, Nadeen Alotaibi, Noor Alhaddad, Taiyeba Alamgir, Husain AlShamali, Yousef Alshammari, Mohammad Almuhanha, Abdullah Albekheet, Khaled Alenezi, Mortadha T Alsaba. 2022. Could Petroleum Sludge be Used to Produce Biomethane as a Renewable Energy Source?. SPE-SPE- 210953-MS.
 13. Amadi, K.W, Iyalla, I., Liu, Y., Alsaba, M., Kuten, D. 2021. Evaluation of Derived Controllable Variables for Predicting ROP using Artificial Intelligence in Autonomous Downhole Rotary Drilling System. SPE-202191-MS.
 14. Passalacqua, H., & Alsaba, M. 2020. Energy Transitions: An Academia Take on Shaping the Future Professionals of Oil and Gas. SPE-201593-MS.
 15. Abbas, A. K., Alsaba, M., Al Dushaishi, M. F., Dahm, H. H., & Alhumairi, M. A. 2020. Determination of Minimum Horizontal Stress Magnitudes from Conventional Well Logging Data Using Artificial Neural Network. ARMA-2020-1495.
 16. Abbas, A. K., Flori, R. E., Alsaba, M., & Al Dushaishi, M. F. 2020. Application of Quantitative Risk Assessment for Optimum Mud Weight Window Design. ARMA-2020-1379.
 17. Abbas, A. K., Alhameedi, H. A., Alsaba, M., Al Dushaishi, M. F., & Flori, R. 2020. Experimental Investigation of Coiled Tubing Buckling Effect on Annular Frictional Pressure Losses. SPE-199792-MS.
 18. Abbas, A. K., Alqatrani, G., Alsaba, M., Mohammed, H. Q., & Al-Bazzaz, W. 2020. Application of Statistical Analysis to Optimize Rate of Penetration. IPTC-19825-MS.
 19. Abbas, A. K., Assi, A. H., Abbas, H., Almubarak, H., & Alsaba, M. 2019. Drill Bit Selection Optimization Based on Rate of Penetration: Application of Artificial Neural Networks and Genetic Algorithms. SPE-197241-MS.
 20. Al Dushaishi, M., Aladasani, A., and Alsaba, M. 2019. Neural Network Application to Manage Drill Stem Vibrations and Improve Drilling Performance. AADE -19-NTCE-068.
 21. Al-Hameedi, A. T. T., Alkinani, H. H., Dunn-Norman, S., Alashwak, N. A., Alshammari, A. F., Alkhamis, M., Alsaba, M. T. 2019. Environmental Friendly Drilling Fluid Additives: Can Food Waste Products be Used as Thinners and Fluid Loss Control Agents for Drilling Fluid? SPE-195410-MS
 22. Al-Hameedi, A. T. T., Alkinani, H. H., Dunn-Norman, S., Flori, R. E., Alsaba, M. T., Amer, A. S., & Al-Bazzaz, W. H. 2019. An Assessment of the Impact of Rheological Properties on Rate of Penetration Using Data Mining Techniques. IPTC-19446-MS
 23. Alkinani, H. H., Al-Hameedi, A. T. T., Dunn-Norman, S., Alsaba, M. T., & Amer, A. S. 2019. Review of the Applications of Decision Tree Analysis in Petroleum Engineering with a Rigorous Analysis. SPE-194795-MS
 24. Alkinani, H. H., Al-Hameedi, A. T. T., Dunn-Norman, S., Flori, R. E., Alsaba, M. T., & Amer, A. S. 2019. "Applications of Artificial Neural Networks in the Petroleum Industry: A Review. SPE-195072-MS
 25. Alkinani, H. H., Al-Hameedi, A. T. T., Dunn-Norman, S., Flori, R. E., Alsaba, M. T., Amer, A. S., & Al-Bazzaz, W. H. 2019. Economic Analysis of Lost Circulation Events to Optimize the Drilling Process in Basra Oil Fields, Iraq. IPTC-19290-MS

26. Dahm, H. H., Abbas, A. K., Alhumairi, M. A., Alsaba, M., Mohammed, H. Q., & Al-Hamad, N. 2019. Using Shear Wave Anisotropy Approach to Determine State of Stress Around the Wellbore from Advanced Acoustic Well Logging; Case Study from Southern Iraq. SPE-197666-MS.
27. Khamees, T., Flori, R., & Alsaba, M. 2019. Investigating BrightWater® as a Potential Method of Improving Sweep Efficiency in Heterogeneous Reservoirs by Numerical Modeling. SPE-198048-MS.
28. Alsaba, M., Al Mejadi, M., Fahmy, M., Aldarakh, Y., Farhat, A., & Majli, J. 2018. "Development and Testing of an Effective Lost Circulation Pill to Cure Highly Permeable Formations". SPE-193760-MS.
29. Alsaba, M. 2018. Project Based Learning (PBL) to Develop Environmental Friendly Cost-Effective Drilling Fluid Additives Generated from Waste: A Hands-on Approach. ACK 2018 PBL Symposium.
30. Alsaba, M., Al Fadhli, A., Marafi, A., Hussain, A., Bander, F., & Al Dushaishi, M. F. 2018. Application of Nanoparticles in Improving Rheological Properties of Water Based Drilling Fluids. SPE-192239-MS.
31. Alsaba, M., Amadi, K. W., Al-Hadramy, K. O., Dushaishi, M. F. A., Al-Hameedi, A., & Alkinani, H. 2018. "Experimental Investigation of Bio-Degradable Environmental Friendly Drilling Fluid Additives Generated from Waste". SPE-190655-MS.
32. Abbas, A. K., Al-Asadi, Y. M. B., Alsaba, M., Flori, R. E., & Alhussainy, S. 2018. "Development of a Geomechanical Model for Drilling Deviated Wellbore through the Zubair Formation in Southern Iraq". SPE-189306-MS.
33. Abbas, A. K., Al-Hamad, N., Alsaba, M. 2018. "Enhancing Rock Mechanical Properties Estimation for Thin Beds Using Microresistivity Borehole Imaging Tool". SPE-193143-MS
34. Abbas, A. K., Alameedy, U., Alsaba, M., & Rushdi, S. 2018. "Wellbore Trajectory Optimization Using Rate of Penetration and Wellbore Stability Analysis". SPE-193755-MS.
35. Abbas, A. K., Dahm, H. H., Flori, R. E., & Alsaba, M. 2018. "Laboratory Geomechanical Characterization of the Zubair Shale Formation". ARMA-2018-243.
36. Abbas, A. K., Flori, R. E., & Alsaba, M. 2018. "Geomechanical Modeling and Wellbore Stability Analysis Approach to Plan Deep Horizontal Wells Across Problematic Shale Formation". URTEC-2879569-MS.
37. Abbas, A. K., Flori, R. E., & Alsaba, M. 2018. "Laboratory Measurements of Petrophysical and Geomechanical Properties for Zubair Sandstone Formation in Southern Iraq". ARMA-2018-078.
38. Abbas, A. K., Flori, R. E., AL-Anssari, A., & Alsaba, M. 2018. "Testing and Evaluation of Shale Stability for Zubair Shale Formation". SPE-192274-MS.
39. Abbas, A. K., Flori, R. E., Al-Asadi, Y. M. B., Alsaba, M., & Al-Hamad Nasser A. 2018. "Application of Integrated Reservoir Geomechanics for Well Planning of High-Angled Wells in a Mature Oil Field". SPE-192241-MS.
40. Abbas, A. K., Rushdi, S., Alsaba, M. 2018. "Modeling Rate of Penetration for Deviated Wells Using Artificial Neural Network". SPE-192875-MS.
41. Al Dushaishi, M., Hellvik, S., Aladasani, A., Alsaba, M., & Okasha, Q. 2018. "Application of Data Analytics to Improve Drilling Performance and Manage Drill Stem Vibrations". SPE-193779-MS.

42. Al-Hameedi, A. T. T., Alkinani, H. H., Dunn-Norman, S., Flori, R. E., Hilgedick, S. A., Alkhamis, M. M., & Alsaba, M. 2018. "Data Analysis of Lost Circulation Events in the Hartha Formation, Rumaila Field, Iraq". SPE-192181-MS.
43. Al-Hameedi, A. T. T., Alkinani, H. H., Dunn-Norman, S., Flori, R. E., Hilgedick, S. A., Alkhamis, M. Alshawi, Y., Al-Maliki, M, Alsaba. M. 2018. "Predictive Data Mining Techniques for Mud Losses Mitigation". SPE-192182.
44. Al-Hameedi, A. T. T., Alkinani, H. H., Dunn-Norman, S., Flori, R. E., Hilgedick, S., M, Amer, A. S., M, Alsaba. 2018. "Using Machine Learning to Predict Lost Circulation in the Rumaila Field, Iraq". SPE-191933-MS.
45. Al-Hameedi, A. T. T., Alkinani, H. H., Dunn-Norman, S., Flori, R. E., Hilgedick, S. A., Alsaba, M. T., & Amer, A. S. 2018. "Mud Losses Estimation Using Partial Least Squares Algorithm". SPE-193266-MS.
46. Al-Saedi, H., N., Flori, R. E., & Alsaba, M. 2018. "Coupling Low Salinity Water Flooding and Steam Flooding for Heavy Oil in Sandstone Reservoirs; Low Salinity-Alternating-Steam Flooding LSASF: A Novel EOR Technique".SPE-192981-MS.
47. Al-Saedi, H., N., Flori, R. E., & Alsaba. M. 2018. "Investigation of Smart Water Flooding in Sandstone Reservoirs: Experimental and Simulation Study Part 2". SPE-193238-MS.
48. Alfarge, D., Alsaba, M., Wei, M., & Bai, B. 2018. "Miscible Gases Based EOR in Unconventional Liquids Rich Reservoirs: What We Can Learn". SPE-193748-MS.
49. Alhuraishawy, A. K., Bai, B., Wei, M., Almansour, A., Alsaba, M., & Elsharafi, M. 2018. "Integrating Microgel-Low Salinity Waterflooding to Improve Production Profile in Non-Crossflow Heterogeneous Reservoir". SPE-192154-MS.
50. Alkamil, E. H. K., Abbood, H. R., Flori, R. E., Medley, G., Nauduri, S., & Alsaba, M. 2018. "Using Managed Pressure Drilling to Reduce Stuck Pipe Problem". SPE-192359-MS.
51. Alkinani, H. H., Al-Hameedi, A. T. T., Dunn-Norman, S., Flori, R. E., Hilgedick, S. A., Alkhamis, M. Alshawi, Y., Al-Maliki, M, Alsaba., Amer, A. S. 2018. "Investigation of the Relationship between Rate of Penetration and Mud Weight Based on the Hardness of the Rock". SPE-192401-MS.
52. Alkinani, H. H., Al-Hameedi, A. T. T., Dunn-Norman, S., Flori, R. E., Hilgedick, S., M, Amer, A. S., M, Alsaba. 2018. "Economic Evaluation and Uncertainty Assessment of Lost Circulation Treatments and Materials in the Hartha Formation, Southern Iraq". SPE-192097-MS.
53. Alkinani, H. H., Al-Hameedi, A. T., Flori, R. E., Dunn-Norman, S., Hilgedick, S. A., & Alsaba, M. 2018. "Updated Classification of Lost Circulation Treatments and Materials with an Integrated Analysis and their Applications". SPE-190118-MS.
54. Husam H. Alkinani, Abo Taleb T. Al-Hameedi, Ralph E. Flori, Shari Dunn-Norman, Steven A. Hilgedick, Ahmed S. Amer, Alsaba. M. 2018. "Drilling Strategies to Control Lost Circulation in Basra Oil Fields, Iraq". AADE-18-FTCE- 59
55. Husam H. Alkinani, Abo Taleb T. Al-Hameedi, Ralph E. Flori, Shari Dunn-Norman, Steven A. Hilgedick, Ahmed S. Amer, Alsaba. M. 2018. "A Comprehensive Analysis of Lost Circulation Materials and Treatments with Applications in Basra's Oil Fields, Iraq: Guidelines and Recommendations". AADE-18-FTCE-SPP-01

56. Kingsley Amadi, Alsaba. M., Ibiye Iyalla, M.F. Al Dushaishi, A. Al-Hameedi, H. Alkinani. 2018. "Empirical Studies of the Effectiveness of Bio-Enhancers (Food Waste Products) as Suitable Additives in Environmental Friendly Drilling Fluid Systems". AADE-18-FTCE-105.
57. Alsaba, M., Al Dushaishi, M., Jeennakorn, M., and Nygaard, R., Saasen, A., Nes, O. 2017. Sealing Pressure Prediction Model for Lost Circulation Treatments Based on Experimental Investigations. (Presented at the 2017 AADE Conference in Houston, TX)
58. Alfarge, D., Wei, M., Bai, B., & Alsaba, M. 2017. "Selection Criteria for Miscible-Gases to Enhance Oil Recovery in Unconventional Reservoirs of North America". SPE-187576-MS.
59. Alfarge, D., Wei, M., Bai, B., & Alsaba, M. 2017. Analysis of IOR Pilots in Bakken Formation by Using Numerical Simulation. SPE-188633-MS.
60. Akhtarmanesh, S., Alsaba, M. Hareland, G., and Nygaard, R. 2016. Barite Nanoparticles with LCM Seals Fractured Formations Better in Weighted Water Based Drilling Fluids. ARMA 16-306.
61. Aldhaheri, M., Wei, M., Bai, B., Alsaba, M. 2016. A Roadmap to Successfully Select a Proper Gel Treatment Technology. SPE-182795-MS.
62. Aldhaheri, M., Wei, M., Bai, B., Alsaba, M. 2016. An Advanced Selection Tool for the Application of In-situ Polymer Gels for Undiagnosed Injection Wells. SPE-182813-MS.
63. Cedola, A.E., Akhtarmanesh, S., Qader, R., Caldarola, V.T., Hareland, G., Nygaard, R. and Alsaba, M. 2016. Nanoparticles in Weighted Water Based Drilling Fluids Increase Loss Gradient. ARMA 16-310.
64. Rahimi, R., Alsaba, M., Nygaard, R. 2016. "Can Particle Size Distribution of Lost Circulation Materials Affect the Fracture Gradient?". AADE-16-FTCE-80.
65. Alsaba, M., Nygaard, R., Hareland, G., and Contreras, O. 2014. "Review of Lost Circulation Materials and Treatments with an Updated Classification". AADE-14-FTCE-25, AADE Fluids Technical Conference and Exhibition, Houston, USA, 15-16 April.
66. Alsaba, M., Nygaard, R., Saasen, A., and Nes, O. 2014. "Laboratory Evaluation of Sealing Wide Fractures Using Conventional Lost Circulation Materials". SPE 170576, SPE Annual Technical Conference and Exhibition, Amsterdam, the Netherlands, 27–29 October.
67. Alsaba, M., Nygaard, R., Saasen, A., and Nes, O. 2014. "Lost Circulation Materials Capability of Sealing Wide Fractures". SPE 170285, SPE Deepwater Drilling and Completions Conference, Galveston, TX, USA, 10–11 September.
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College Service including committee Membership:	CDIO Asian Regional Meeting – Steering Committee 8th Student Graduation Project – Event Coordinator 7th Student Graduation Project – Event Coordinator Acting Head for the Petroleum Engineering – Summer 17 5th Student Graduation Project - Graduation Project Exhibition Committee
National Service:	NA
College Committees:	COE - Industrial Advisory Board Department Council Teaching, Learning Validation & Moderation Committee Curriculum Committee Credit Transfer Committee Project Based Learning (PBL) Committee Students Appeals and Complaints Committee Labs Committee Research & Faculty Development Committee Auditing & QM Committee Accreditation Committee Appointment and Promotion Committee Departmental Disciplinary Committee