Shaine Mohammadali Lalji

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DOB: - 29/11/1988

Google Scholar https://scholar.google.co.uk/citations?user=fbYV-Z0AAAAJ&hl=en&oi=ao

PROFESSIONAL SUMMARY

I am a Petroleum Engineering graduate with specialization in Drilling Engineering from Norwegian University of Science & Technology, Trondheim. I am proficient in developing new lessons and activities to expand learning opportunities.

EXPERIENCE

March 2018–Present
Karachi, Pakistan

N.E.D. University of Engineering and Technology
Assistant Professor
- Research activities
- Delivering lectures
- Administration related activities

Jan 2014– 2018
Karachi, Pakistan

N.E.D. University of Engineering and Technology
Lecturer

- Prepared and delivered lectures
- Supervised and corrected examinations
- Rendered Class Advisory role in for students
- Held position as an Internal Supervisor and Coordinator of Final-Year design project
- Involved in course team activities and curriculum development for students

EDUCATION

2021-2024

N.E.D. University of Engineering and Technology

PhD (Chemical Engineering) 3.96 GPA

2015 – 2017

Norwegian University of Science and Technology

MS (Petroleum/Drilling Engineering) with and overall **B Grade (85%)**

2009 – 2012

N.E.D. University of Engineering and Technology

BE (Petroleum Engineering)
89.61% 4.0 GPA

2007 – 2008

COMMCES College

Intermediate Engineering with **84.3%** and ranked **2**nd in the section

ACADEMIC PROJECTS

MSc THESIS   **June 2017– Dec 2017**

Error and Ellipses of Uncertainty in Far North

- To analyze the impact of MWD survey error sources and positional uncertainty envelop analysis

MSc SPECIALIZATION PROJECT   **Sept 2016 –Dec 2016**

Modeling Relief Wells for a Shallow Horizontal Target Well

- Modeling Relief wells to intersect an extremely shallow horizontal well 250m below the sea bed.

MSc SPECIALIZATION COURSE

Well Path Construction and Anti-Collision Analysis

- Design a directional injector well successfully in the vicinity of neighboring wells through an anti-collision analysis.

- Coordinate and collaborate with other groups working on different parts of well construction to deliver the final well design.

RESEARCH WORK

1. Master's Research Thesis "*Error and Ellipses of Uncertainty in Far North"*

2. **Lalji, S.M**., Haneef, J., Khan, M.A. Ali, S. I. Demagnetizing the drill string magnetic interference in Far North and in Pakistan. J Petrol Explor Prod Technol,2019.**https://doi:10.1007/s13202-019-00801-7**

3. **Lalji, S.M**., Khan, M.A., Haneef, J. et al. Nano particles adapted drilling fluids for the swelling inhibition for the Northern region clay formation of Pakistan. Appl. Nanosci (2021). **https://doi.org/10.1007/s13204-021-01825-4**

4. Ali, S.I., **Lalji, S.M.**, Haneef, J. et al. Comprehensive Analysis of Asphaltene Stability Predictors under Different Conditions. Pet. Chem.61, 446–454 (2021).**https://doi.org/10.1134/S0965544121050091**

5. Ali, S.I., **Lalji, S.M.**, Haneef, J. et al. Critical analysis of different techniques used to screen asphaltene stability in crude oils, Fuel, Volume 299,(2021). **https://doi.org/10.1016/j.fuel.2021.120874**

6. Ali, S.I., **Lalji, S.M.**, Haneef, J. et al. Estimation of asphaltene adsorption on MgO nanoparticles using ensemble learning, Chemo metrics and Intelligent Laboratory Systems, Volume 208, 104220, (2021). **https://doi.org/10.1016/j.chemolab.2020.104220**

7. Ali, S.I, Awan, Z., **Lalji, S.M.**, Laboratory evaluation experimental techniques of asphaltene precipitation and deposition controlling chemical additives., Fuel, Volume 310, Part A, 122194, (2022)**https://doi.org/10.1016/j.fuel.2021.122194**

8. Khan, M.A., Haneef, J., **Lalji, S.M.** et al. Experimental study and modeling of water-based fluid imbibitions process in Middle and Lower Indus Basin Formations of Pakistan. J Petrol Explor Prod Technol 11, 425–438(2021).**https://doi.org/10.1007/s13202-020-01022-z**

9. Ali, S. I., **Lalji, S. M.,** Haneef, J. et al. Phenomena, factors of wax deposition and its management strategies. Arab J. Geosci. 15, 133 (2022). **https://doi.org/10.1007/s12517-021-09221-6**

10. **Lalji, S.M.,** Ali, S.I., Ahmed, R. et al. Comparative performance analysis of different swelling kinetic models for the evaluation of shale swelling. J Petrol Explor Prod Technol (2021).

https://doi.org/10.1007/s13202-021-01387-9

11. Ali, S.I., Haneef, J., Tirmizi, S.T. et al. Prediction of Asphaltene Precipitation Envelope (APE) Using Empirical Equations and Equation of State Model. Pet. Chem. 61, 1217–1227 (2021). https://doi.org/10.1134/S0965544121110219

12. **Lalji, S.M.,** Ali, S.I., Awan, Z.U.H. et al. A novel technique for the modeling of shale swelling behavior in water-based drilling fluids. J Petrol Explor Prod Technol 11, 3421–3435 (2021). https://doi.org/10.1007/s13202-021-01236-9

13. Ali, S.I., **Lalji, S.M.,** Haneef, J. et al. Asphaltene precipitation modeling in dead crude oils using scaling equations and non-scaling models: comparative study. J Petrol Explor Prod Technol 11, 3599–3614(2021). https://doi.org/10.1007/s13202-021-01233-y

14. **Lalji, S.M.,** Ali, S.I., Awan, Z.U.H. et al. Development of modified scaling swelling model for the prediction of shale swelling. Arab J Geosci 15, 353 (2022). https://doi.org/10.1007/s12517-022-09607-0

15. Saboor, A., Yousaf, N., Haneef, J. et al. Performance of asphaltene stability predicting models in field environment and development of new stability predicting model (ANJIS). J Petrol Explor Prod Technol 12, 1423–1436 (2022). https://doi.org/10.1007/s13202-021-01407-8

16. **Lalji, S.,** Ali, S., Ahmed, R. et al. Study the effects of mineral content on water diffusion mechanism and swelling characteristics in shale formations of Pakistan. Arab J Geosci 15, 864 (2022). https://doi.org/10.1007/s12517-022-10133-2

17. **Lalji, S.M.,** Ali, S.I., Ahmed, R. et al. Influence of graphene oxide on salt-polymer mud rheology and Pakistan shale swelling inhibition behavior. Arab J Geosci 15, 612 (2022). https://doi.org/10.1007/s12517-022-09800-1

18. **Lalji, S.M.,** Ali, S.I., Haneef, J. et al. Changes in Pakistan crude oil properties contaminated by water-based drilling fluids with varying KCL concentrations. Chem. Pap. 76, 4189–4201 (2022). https://doi.org/10.1007/s11696-022-02154-8

19. **Lalji, S.M.,** Ali, S.I., Sohail, H. et al. Combine effect of graphene oxide, pure-bore and sodium alginate on rheological and filtration properties and cutting carrying capacity of water-based drilling fluid. Chem. Pap. (2022). https://doi.org/10.1007/s11696-022-02337-3

20. Ali, S.I., **Lalji, S.M.,** Haneef, J. et al. Determination of Asphaltene Stability in crude oils using a deposit level test coupled with a spot test: A simple and Qualitative approach. ACS OMEGA, 6, 16, 14165-14179. https://doi.org/10.1021/acsomega.2c00777

21. Ali, S.I., **Lalji, S.M.,** Haneef, J. et al. Performance evaluation of asphaltene inhibitors using integrated method—ADT coupled with spot test. Arab J Geosci 15, 674 (2022). https://doi.org/10.1007/s12517-022-09994-4

22. Ali, S.I., **Lalji, S.M.,** Awan, Z. et al. Performance analysis of kinetic models in predicting asphaltene precipitation rate under different conditions of temperature and percentage of precipitant molecular weight. Arab J Geosci 15, 1475 (2022). https://doi.org/10.1007/s12517-022-10761-8

23. Ali, S.I., **Lalji, S.M.,** Hashmi, S. et al. quantification and ranking of oilfield sand wells facing asphaltene deposition problem using fuzzy TOPSIS coupled with AHP, Ain Shams Engineering Journal 15(1),102289,(2024), https://doi.org/10.1016/j.asej.2023.102289

24. Ali, S.I., **Lalji, S.M.,** Awan, Z. et al. "Prediction of asphaltene stability in crude oils using machine learning algorithms", Chemo metrics and Intelligent Laboratory Systems, Vol 235, 104784 (2023)

https://doi.org/10.1016/j.chemolab.2023.104784

25. Ali, S.I., **Lalji, S.M.,** Haider, S.A., et al. "Risk prioritization in acore preparation experiment using fuzzy VIKOR integrated with Shannon entropy method", Ain Shams Engineering Journal 15 (2), (2024), **https://doi.org/10.1016/j.asej.2023.102421**

26. Huang, X., Dai, Z., Zhang, C., et al. "Improving the performance of a polyamine shale inhibitor by introducing a hydrophobic group in oil and gas development", FUEL 235, 129435, **https://doi.org/10.1016/j.fuel.2023.129435**

27. Ali, S.I., **Lalji, S.M.,** Awan, Z. et al. "Evaluation of different parameters affecting the performance of asphaltene controlling chemical additives in crude oils using multiple experimental approaches assisted with image processing technique", Geoenergy Science and Engineering 225, 211676, (2023) **https://doi.org/10.1016/j.geoen.2023.211676**

28. **Lalji, S.M.,** Ali, S. I. & Asad, M. Experimental Effect of Biopolymers, Synthetic and Modified Polymers on Western Pakistan Shale (GHAZIJ) Stability. Arab J Sci Eng 48, 16639–16653 (2023). **https://doi.org/10.1007/s13369-023-07737-5**

29. **Lalji, S.M.,** Ali, S.I., Khan, M.A. et al. Investigation of rheological behavior, filtration characteristics and microbial activity of biopolymer water-based drilling fluids containing monovalent and divalent cations. Chem. Pap. 77, 4693–4704 (2023). **https://doi.org/10.1007/s11696-023-02819-y**

30. Ali, S.I., **Lalji, S.M.,** Awan, Z. et al. Comprehensive performance analysis of kinetic models used to estimate asphaltene adsorption kinetics on nanoparticles. Chem. Pap. 77, 1017–1031 (2023). **https://doi.org/10.1007/s11696-022-02539-9**

31. **Lalji, S.M.,** Ali, S.I., Ullah, R. et al. Experimental investigation of rheological behavior and stability of mud system using novel image processing application in presence of activated carbon and silica-coated iron oxide nanoparticles. Appl Nanosci 13, 6405–6420 (2023). **https://doi.org/10.1007/s13204-023-02935-x**

32. Ali, S.I., **Lalji, S.M**., Rizwan, M. et al. Factorial Analysis of Experimental Parameters Effecting Asphaltene Precipitation in Dead Crude Oils. Arab J Sci Eng 48, 9519–9533 (2023). **https://doi.org/10.1007/s13369-023-07702-2**

33. **Lalji, S.M**., Ali, S.I. & Khan, M.A. Study of Rheological Characteristics of a Water-Based Drilling Fluid in Presence of Biopolymers, Synthetic Polymer, and Modified Natural Polymer. Pet. Chem. 63, 906–916 (2023). **https://doi.org/10.1134/S0965544123060178**

34. **Lalji, S.M.,** Ali, S.I., Yousufi, M.M. et al. Factorial analysis for the impact on filtration properties of water-based drilling fluid after the addition of graphene oxide, pure-bore, and sodium alginate. Arab J Geosci 16, 132 (2023). **https://doi.org/10.1007/s12517-023-11227-1**

35. Lashari, Z. A., **Lalji, S. M.,** Ali, S. I. et al. Physiochemical analysis of titanium dioxide and polyacrylamide nano fluid for enhanced oil recovery at low salinity. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-024-03334-4**

36. **Lalji, S. M.,** Ali, S. I. & Lashari, Z. A. Synthesized silica-coated iron oxide nanoparticles and its application as rheology modifier in water-based drilling fluid. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-024-03317-5**

37. Ali, S.I., **Lalji, S.M**., Ali, S.M., et al., "Risk ranking of rig up operation activities using multi-criteria decision-making methods based on fuzzy environment", Journal of Engineering Research, (2024), **https://doi.org/10.1016/j.jer.2024.01.011**

38. **Lalji, S.M.,** Haneef, J. & Hashmi, S. Exploring the effect of AC/TiO$_2$ nanoparticles and Polyanionic

cellulose on water-based drilling fluid properties: an integrated approach of experiment and CCD. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-023-03270-9**

39. Ali, S.I., **Lalji, S.M.,** Haneef, J. et al. HSE hazard ranking of chemicals related to Petroleum Drilling Laboratory of University using Fuzzy TOPSIS. OPSEARCH 60, 1386–1406 (2023). **https://doi.org/10.1007/s12597-023-00666-9**

40. **Lalji, S.M.,** Ali, S.I., Hussain, S. et al. Variations in cold flow and physical properties of Northern Pakistan gas condensate oil after interacting with different polymeric drilling mud systems. Arab J Geosci 16, 477 (2023). **https://doi.org/10.1007/s12517-023-11589-6**

41. **Lalji, S.M.,** Ali, S.I., Khan, M.A. et al. Statistical approach used to evaluate the performances of different diffusion correlations in modeling Pakistan shale swelling characteristics. Chem. Pap. 77, 4705–4717(2023). **https://doi.org/10.1007/s11696-023-02820-5**

42. Ali, S.I., **Lalji, S.M**., Awan, Z. et al. Performance analysis of kinetic models in predicting asphaltene precipitation rate under different conditions of temperature and percentage of precipitant molecular weight. Arab J Geosci 15, 1475(2022).**https://doi.org/10.1007/s12517-022-10761-8**

43. Haider, G., **Lalji, S. M., Ali**, S. I. et al. Synthesis of coal-bio mass blended fuel through coal-wet briquetting technology. Arab J Geosci 17, 111 (2024). https://doi.org/10.1007/s12517-024-11922-7

44. **Lalji, S.M.,** Ali, S.I., Asad, M. et al. Earth's Magnetic Declination Error Influence on Wellbore Positioning in Pakistan Region and Norwegian Sea. Case Study. Geomagn. Aeron. 63 (Suppl 1), S59–S70 (2023).**https://doi.org/10.1134/S0016793223601138**

45. **Lalji, S.M.,** Haneef, J. & Hashmi, S. Formulation of a newly developed shale-swelling model as a function of compaction pressure and temperature. Multiscale and Multidiscip. Model. Exp. and Des. (2024). **https://doi.org/10.1007/s41939-024-00390-x**

46. **Lalji, S.M.,** Haneef, J. & Hashmi, S. Mitigating Paleocene age Ranikot shale formation swelling characteristics using carbon supported anatase-titanium dioxide (MWCNT/TiO_2, GO/TiO_2 and AC/TiO_2) nanomaterial water-based mud—chemical and rock interaction study. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-024-03396-4**

47. Ali, S.I., **Lalji, S.M**., Ahsan, U. et al. Predicting asphaltene adsorption on Fe_3O_4 nanoparticle using machine learning algorithms. Arab J Geosci 17, 143 (2024). **https://doi.org/10.1007/s12517-024-11943-2**

48. **Lalji, S.M.,** Haneef, J. & Hashmi, S. Application of graphene oxide/titanium dioxide nanoparticle on the rheological, filtration and shale swelling characteristics in water-based mud system: experimental and full factorial design study. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-024-03454-x**

49. Asad, M., **Lalji, S.M.,** Ali, S.I. et al. Influence of green chemicals, biopolymers, and nanoparticles on torque and drag forces during drilling activity. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-024-03469-4**

50. **Lalji, S.M**., Ali, S.I., Ali, S.M. et al. Investigation of silica coated iron oxide nanoparticles and activated carbon as a potential fluid loss additive and Pakistan shale inhibitor in water-based mud system coupled with advance image processing technique. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-024-03505-3**

51. Khan, M.A., M.-C.L., Kaihe Lv, et al. Cellulose derivatives as environmentally friendly additives in water-based drilling fluids: A review, Carbohydrate Polymers, 2024. 342 (122355). **https://doi.org/10.1016/j.carbpol.2024.122355**

52. **Lalji, S.M.,** Ali, S.I., Khan, M.A. et al. Combined effect of quaternary amine [NR4]$^+$ solution and Polyanionic cellulose on shale inhibition behavior. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-024-03608-x**

53. **Lalji, S.M.,** Haneef, J. & Hashmi, S. Improving the characteristics of water-based mud using titanium dioxide doped with activated carbon prepared from grapefruit waste material. Chem. Pap. 78, 7651–7665 (2024). **https://doi.org/10.1007/s11696-024-03629-6**

54. Khan, M. A., **S. M. Lalji**, S. I. Ali, M.-C. Li and M. Burney (2024). "Application of Hydrothermal Synthesized Titanium Dioxide – Doped Multi walled Carbon Nanotubes on Filtration Properties Response Surface Methodology Study."ACS Omega 9 (32): 34765-34776.**https://doi.org/10.1021/acsomega.4c04177**

55. Ali, S.I, **Lalji, S.M**, et al. "Selection of best asphaltene controlling chemical additive for crude oil using strategic sensitivity of weight criteria importance in TOPSIS method. Journal of Industrial and Engineering Chemistry (2024). **https://doi.org/10.1016/j.jiec.2024.08.005**

56. **Lalji, S.M.,** Ali, S.I., Lashari, Z.A. et al. Performance evaluation of Si/Fe$_3$O$_4$ nanoparticles in water-based mud in presence of different Mg^{2+}, K$^+$, Na$^+$ salts: experimental and stability visualization study. Chem. Pap. (2024). **https://doi.org/10.1007/s11696-024-03678-x**

57. Kanwal, F., **Lalji, S. M**., Ali, S. I. et al. Flaxseed mucilage—a green additive for the enhancement of water-based mud system characteristics. Arab J Geosci 17, 256 (2024). **https://doi.org/10.1007/s12517-024-12061-9**

58. **Lalji, S.M.,** Ali, S.I., Ayubi, M. et al. Introducing a novel nano-based drilling fluid: synergic use of murree shale, titanium dioxide, and graphene oxide nanoparticles. Multiscale and Multidiscip. Model. Exp. and Des. 8, 6 (2025). **https://doi.org/10.1007/s41939-024-00611-3**

59. Khan M.A., Abbasi, F.A, **Lalji, S.M.**, Ali, S.I., Li, M.-C., Mateen, M., Mustafa, M, A., Novel Technique in Determining Mud Cake Permeability in SiO2 Nanoparticles and KCl Salt Water Based Drilling Fluid using Deep Learning Algorithm. Int. J. Pet. Technol. [Internet]. 2024 Oct. 28 [cited 2024 Nov. 5]; 11: 29-3. Available from: **https://avantipublishers.com/index.php/ijpt/article/view/1549**

60. Ali, S.I., **Lalji, S.M.,** Awan, Z. et al. Understanding live oil composition effect on asphaltene precipitation as a function of temperature change during depressurization using machine learning techniques. Chem. Pap. (2024). https://doi.org/10.1007/s11696-024-03784-w

61. Abbasi, F.A., Sajjad, A., Ayubi, M. et al. Predicting permeability in sandstone reservoirs from mercury injection capillary pressure data using advanced machine learning algorithms. Arab J Geosci 17, 329 (2024). https://doi.org/10.1007/s12517-024-12145-6

62. **Lalji, S.M.,** Ayubi, M., Ali, S.I. et al. Investigating different kinetic models for CO$_2$ adsorption on amine silica sorbent. Discov. Chem. 1, 71 (2024). https://doi.org/10.1007/s44371-024-00077-9

63. **Lalji, S.M.,** Ali, S.I., Ayubi, M. et al. Introducing a novel nano-based drilling fluid: synergic use of murree shale, titanium dioxide, and graphene oxide nanoparticles. Multiscale and Multidiscip. Model. Exp. and Des. 8, 6 (2025). https://doi.org/10.1007/s41939-024-00611-3

64. Lashari, Z.A., Aamir, M., Kumar, B. et al. Stability analysis of nanofluid with aluminum oxide and polyacrylamide for enhanced oil recovery: insight into experimental investigation. Multiscale and Multidiscip. Model. Exp. and Des. 8, 63 (2025). https://doi.org/10.1007/s41939-024-00654-6

CONFERENCE PAPERS

1. Aun A. S., Zaidi, S. F., Louis, C., Anjum, M., Ali, S. I., Haneef, J., **Lalji, S. M.**, and Shabeer A. "Sustainable Economic Strategies for Corporate CEOs: AI-Driven Leadership in Driving Innovation, Growth, Safety, Sustainability, and Climate Change Resilience to Save Lives and Our Planet -A Comprehensive Comparative Policy Analysis on Unlocking Pakistan's Geothermal Potential." Paper presented at the ADIPEC, Abu Dhabi, UAE, 2023. **https://doi.org/10.2118/216413-MS**

2. Aun A. S., Zaidi, S. F., Ali, S. I, Louis, C., **Lalji, S.M.,** Haneef, J., and Syed M. A. "Chemical Inhibitors for Asphaltene Control in the Oil Industry: A Comprehensive Review of Laboratory Experimental Techniques and Performance Evaluation." Paper presented at the ADIPEC, Abu Dhabi, UAE, 2023. **https://doi.org/10.2118/216215-MS**

3. Khan, M. A., Aamir, M., Asad, M., Junaid, M., **Lalji, S.M.,** Ali, S. I., Ahmed, H, Lashari, Z. A., Lv, K., Li, M.C., and Jinsheng S. "Investigating the Effect of Salt, Polymer and Magnetic Nanoparticles on Critical Drilling Parameters—Coupled with Novel 3D Image Processing Technique." Paper presented at the ADIPEC, Abu Dhabi, UAE, 2023. **https://doi.org/10.2118/216585-MS**

4. Khan, M. A., Sheikh, M. A., Salman, M, **Lalji, S. M.,** Ali, S. I., Li, M.C., Lv, K., and Jinsheng S. "Taro Mucilage as Green Inhibitor in Water-Based Drilling Fluid to Modify the Rheological and Filtration Properties and Mitigating Shale Swelling Characteristics."Paper presented at the ADIPEC, Abu Dhabi, UAE, 2023. **https://doi.org/10.2118/216605-MS**

5. Khan, M. S., Louis, C., Manzoor, A. A., Ali, S. I., **Lalji, S. M.,** Uddin A. K., Muhammad A., Aun A. S.M., Haneef, J., Abbasi, F.A., and Nimra Y."Empathetic Leadership and Purpose-Driven Strategies in the Global CCUS Landscape-Deliberating the Economic Feasibility and Prudent Risk Mitigation for the Implementation of CCUS within the North American and Global Ecosystem - Scrutinizing Ecosystem Consequences and Alleviating HS Hazards, with an Emphasis on Rigorous Well Testing and Enhanced Safety Protocols." Paper presented at the International Petroleum Technology Conference, Dhahran, Saudi Arabia, and February 2024. **https://doi.org/10.2523/IPTC-23670-MS**

6. Khan, M. A., Ayesha, Siddiqui, R, **Lalji, S. M.**, Ali, S. I., Haneef, J., and Muhammad A A."Extraction of Halophytic Oil and its Application in the Formulation of Oil-Based Mud System."Paper presented at the International Petroleum Technology Conference, Dhahran, Saudi Arabia, February 2024. **https://doi.org/10.2523/IPTC-24212-MS**

7. Uddin A. K., Muhammad A., Louis, C., Manzoor, A. A., Ali, S.I., **Lalji, S. M.**, Aun A. S. M., Haneef, J., Abbasi, F. A., Khan, M. S., Tirmizi, S. T., and Muhamad K."How Corporations Succeed by Solving World's Toughest Problems - Tackling Climate Change with an Elite Business Research Consortium and AI-Enhanced Leadership: Decision-Making Endeavor in the Face of Climate Change." Paper presented at the International Petroleum Technology Conference, Dhahran, Saudi Arabia, February 2024. **https://doi.org/10.2523/IPTC-24189-MS.**

8. Tirmizi, S. T., Hussain, A., Ali, S. I., Louis, C., ul Haq T. S. R., **Lalji, S. M.**, Malik, A., and Zeeshan A. A., "Block chain Technology in Energy Storage Systems." Paper presented at the SPE Annual Technical Conference and Exhibition, New Orleans, Louisiana, USA, September 2024. **https://doi.org/10.2118/220706-MS**

9. ur Rahman, Saad, Siddiqui, Rida, Mustafa, Muhammad, Lalji, **Shaine MohammadAli**, Ali, Syed Imran, and Faiq Azhar Abbasi. "Shale Swelling Inhibitor Utilizing Taro Root, Alginate, and Activated Carbon from Waste Material." Paper presented at the ADIPEC, Abu Dhabi, UAE, November 2024.

REVIEWER

Currently serving as the reviewer in the following journals: -

1. Petroleum Science and Technology
2. Geo-fluids
3. Asia-Pacific Journal of Chemical Engineering
4. Scientific Reports
5. Journal of Engineering and Applied Science
6. Journal of Petroleum Exploration and Production Technology
7. Environmental Earth Sciences

RESEARCH AWARD

1. Awarded with the Best Researcher Award from NED University of Engineering and Technology in 2021
2. Awarded with the Best Researcher Award from NED University of Engineering and Technology in 2022
3. Awarded with the Best Researcher Award from NED University of Engineering and Technology in 2023
4. Awarded with the NEDAASC 2022 Best Published Research Award (BPRA) from NED Alumnus USA

POSTER

1. Anjum, M., Ali, S.I., **Lalji**, **S. M.,** "Carbon capture and storage (CCS) technologies for the oil and gas industry: A comprehensive literature review", ACS 10087,(2023),

   https://doi.org/10.1021/scimeetings.3c10087

SKILLS

- Landmark suit of software (Well plan, Well-cat, Stress check, Compass etc.), MATLAB, Microsoft Office.
- Strong Communication & Interpersonal skills.
- Data Analysis, Problem Solving, Petroleum Engineering, Drilling Engineering.
- Cooperative, Initiator, Team Player, Patient and Ethical.
- Hands on experience on statistical software MINITAB

ACHIEVEMENTS

- 1st Position (Poster Presentation) at PhD seminar organized by Department of Geo-science & Petroleum, NTNU.
- Member NTNU Petro-bowl team; Finished in world stop 8 elite teams at the final Petro-bowl Championship held at SPE Annual Technical Conference & Exhibition, Dubai, 2016.