## CV
## Professor Doctor/ Khalid Elyas Mohamed Elameen AlKhidir
## الأستاذ الدكتور /خالد الياس محمد الأمين الخضر

Marital Status: Married/ One kid
Tel: 0593808869 E-mail: Kalkhidir@ksu.edu.sa; khalidalkhidir@gmail.com;
https://orcid.org/my-orcid?orcid=0000-0001-5777-0602

**Position:** Professor

**Education:**

Juba University, Sudan, College of Natural Resources and Environmental Studies Geology and Mining, Bachelor of Science 1990.

King Saud University, Saudi Arabia, College of Science, Department of Geology and Geophysics, MSC 2007.

King Saud University, Saudi Arabia, College of Engineering, Department of Petroleum and Natural Gas Engineering, Ph. D. 2012. **Google scholar link** https://scholar.google.com/citations?user=glkVvzsAAAAJ&hl=en **King Saud University website** https://fac.ksu.edu.sa/kalkhidir

**Teaching Experience:**

Geology courses: Petroleum Geology, Ore deposits, Geology of Ore Deposit. General Geology. Environmental geology, Environmental pollution, Environmental modeling Engineering Courses: Enhances oil recovery.

**Research Experience and Interests**

My research is directed toward

- Characterization of Oil and Gas reservoirs.
- Aquifer Characterization.
- Synthesis of deep eutectic solvents and their application in enhanced oil recovery.
- Synthesis of deep eutectic solvents and their application in mineral processing.
- Synthesis of deep eutectic solvents and their application in liquid – liquid extraction.

- Synthesis of ester and their application in mineral processing.
- Synthesis of catalyst, their characterization and application of production of ethylene oxide.
- Synthetic polymers and natural polymers their characterization and applications in mineral processing.
- Synthetic polymers and natural polymers their characterization and applications in enhanced oil recovery.

**Technical Skills:**

SEM, SEMEDX, FTIR, PARTICLE SIZE ANALYZER, PARTICLE CHARGE MAPPER, XRF, HPLC, DSA100, VISCOMETER, CFS 200 ,MRC5, GC-MS Raman Spectroscopy, MICP, MATLAB, Microsoft Office 2007, 2010.

**Publications**

1. Seismo Magnetic Moment Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Professor /Doctor Khalid Elyas Mohamed Elameen Alkhidir King Saud University –College of Engineering. Journal of King Saud University Engineering Sciences (Received 3/3/2020G, Accepted for Publication 30/4/2020G) البعد الكسري للحظة المغناطيسية الزلزالية في تخصيص خزانات شجرا البيرمو كربوني ، المملكة العربية السعودبة كلية الهندسة الأستاذ الدكتور/خالد الياس محمد الامين الخضر جامعة الملك سعود

2. **Khalid Elyas Mohamed Elameen Alkhidir**. On Similarity of Seismo Diffusion Coefficient and Pressure Head Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Journal of Biogeneric Science and Research. Published: 25/06/2020

3. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D**. Entropy Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Earth & Environmental Science Research & Review. Accepted: 25 Mar 2020; Published: 30 Mar 2020

4. **Prof. Khalid Elyas Mohamed Elameen Alkhidir**. Specific Enthalpy Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Journal of Agriulture and Aquaculture. Volume 2, Issue 1 2020.

5. **Khalid Elyas Mohamed Elameen Alkhidir** On Similarity of Seismo Magentic Power Density and Capillary Pressure Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara

Formation, Saudi Arabia Medcave Journal of Environmental Science&Technology volume 2, Issue 1, 2020

6. **Khalid Elyas Mohamed Elameen Alkhidir.** Seismo Mechanical Energy Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. International Journal of Petroleum and Petrochemical Engineering. Volume 6, Issue 1, 2020, PP 14-23

7. **Khalid Elyas Mohamed Elameen Alkhidir**. Frequency Spectral Radiation Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Current Findings in Archaeology and Anthropology. Volume 1 - Issue 1, 2020

8. **Khalid Elyas Mohamed Elameen Alkhidir**. On similarity of Seismo Magnetic Moment and pressure Head Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Journal of Geology & Earth Sciences. Volume 1| Issue 6, 2020.

9. **Khalid Elyas Mohamed Elameen Alkhidir**. On Similarity of Seismo Magnetic Power Density and Pressure Head Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Journal of Physics & Optics Sciences. Volume 2 | Issue 1 | 2020.

10. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** On Similarity of Seismo Radial Grain Velocity and Capillary Pressure Fractal Dimension for Characterizing Shajara Reservoirs of the PermooCarboniferous Shajara Formation, Saudi Arabia Journal of Applied Material Science & Engineering Research. 14 Feb 2020

11. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** On Similarity of Seismo Magentic Field and Pressure Head Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia, Saudi Arabia. Earth & Environmental Science Research & Rev 15 Feb 2020

12. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** Seismo Radial Grain Velocity Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Journal of Chemistry: Education Research and Practice 6 Feb 2020

13. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** Seismo Diffusion Coefficient Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. 2020,05/01

14. **Professor Khalid Elyas Mohamed Elameen Alkhidir**. Seismo Magnetic Moment Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. World scientific News 2020, 139 (2):186-200.

15. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D**. Seismo Magnetic Field Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia.
International Journal of Bioprocess &Biotechnological Advancements. 2019, 5(1):169-176.

16. Khalid Elyas Mohamed Elameen Alkhidir. Luminous Efficacy Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Current Trends in Nanotechnology 2019 ,1(1):1-7

17. **Prof. Khalid Elyas Mohamed Elameen Alkhidir Ph.D**. On similarity of specific heat capacity and capillary pressure fractal dimensions for characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Journal of Advanced Research in Biotechnology. 2019,4(2):1-7.

18. **Khalid Elyas Mohamed Elameen Alkhidir.** Volumetric heat capacity and capillary pressure fractal dimensions for characterizing shajara reservoirs of the permo-carboniferous shajara formation, Saudi Arabia. Biology, Engineering and Medicine, 2019,4:1-9

19. **Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** Seismic Shear Wave Velocity Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Petroleum and Chemical Industry International. 2019, 2(3):1-6.

20. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D**. On Similarity of Molar heat Capacity and Capillary Pressure Fractal Dimensions for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Research Journal of Nanoscience and Engineering, 2019, 3(2):30-38.

21. **Khalid Elyas Mohamed Elameen Alkhidir**. Radiant Exposure Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation. International Journal of Modern Science and Technology 2019, 4(6):161-167.

22. **Prof. Khalid Elyas Mohamed Elameen Alkhidir Ph.D**. Molar Enthalpy Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation. Journal of Agriculture and Aquaculture 2019, 1(1): 1-8

23. **Prof. Khalid Elyas Mohamed Elameen Alkhidir Ph.D**. Thermo Electric Sensitivity Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Earth & Environmental Science Research & Reviews 2019, 2(3):1-6.

24. **Prof. Khalid Elyas Mohamed Elameen Alkhidir Ph.D**. Cole cole time fractal dimension for characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Journal of Environmental Sciences.2019,1(4):1-6

25. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** Polarization Density Fractal Dimension For Characterizing Shajara Reservoirs of the Permo-Carboniferous shajara Formation. Research Journal of Nanoscience and Engineering, 2019,3 (2):13-21.

26. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** Diffusion coefficient fractal dimension for characterizing Shajara reservoirs of the Permo – carboniferous Shajara formation, Saudi Arabia. MOJ Ecology & Environmental Sciences. 2019, 4(2):85-90

27. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D**. Work Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. International Journal of Environment & Agricultural Science, 2019, 3(2):1-8.

28. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D**. Fluid Potential Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. International Journal of Petroleum and Petrochemical Engineering. 2019,5(1):6-15.

29. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** Seismo Magnetic Field Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. International Journal of Biotechnology and Bioengineering.2019,5(1):1-8.

30. **Prof.Khalid Elyas Mohamed Elameen Alkhidir, Ph.D.** On the Equality of Electric Power Fractal Dimension and Capillary Pressure Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation. Journal of Applied Physics & Nanotechnology. 2019, 2(1):1-6.

31. **Prof. Khalid Elyas Mohamed Elameen Alkhidir**, **Ph.D.** Transverse Relaxation Time Fractal Dimension of Nuclear Magnetic Resonance for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Petroleum and chemical industry International. 2019, 2 (2):1-6.

32. **Khalid Elyas Mohamed Elameen Alkhidir.** Seismo Electric Bio availability Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. International Journal of Pollution Research. 2018, 1:1-9.

33. **Prof. Khalid Elyas Mohamed Elameen AlKhidir.** Flow rate fractal dimension for characterizing Shajara reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Advances in Petroleum and Chemical Engineering. 2018, 1:1-6.

34. **Khalid Elyas Mohamed Elameen AlKhidir.** Seismo Mechanical Force Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Modern Approaches in Oceanography and Petrochemical Sciences. 2018, 2(2): 1-7.

35. **Professor Khalid Elyas Mohamed Elameen AlKhidir.** On Similarity of Differential Capacity and Capillary Pressure Fractal Dimensions for Characterizing Shajara Reservoirs of the Permo- Carboniferous Shajara Formation, Saudi Arabia. SciFed Journal of Biofuel and Bioenergitcs. 2018, 1(2): 1-10.

36. **Khalid Elyas Mohamed Elameen AlKhidir.** Number of Moles Fractal Dimensions for Characterizing Shajara Reservoirs of the Shajara Formation, Saudi Arabia. Petroleum and Chemical Industry International. 2018,1(1):1-6.

37. **Khalid Elyas Mohamed Elameen AlKhidir.** Seismo Electric Transfer Function Fractal Dimension for Characterizing Shajara Reservoirs Of The Permo-Carboniferous Shajara Formation, Saudi Arabia. Petroleum and Chemical Industry International. 2018, 1(1): 1-5.

38. **Khalid Elyas Mohamed Elameen Alkhidir. Ph.D.,** On Similarity of Pressure Head and Bubble pressure Fractal Dimensions for Characterizing Permo-Carboniferous Shajara Formation, Saudi Arabia. Journal of Industrial Pollution and Toxicity. 2018, 1(1). -10

39. **Khalid Elyas Mohamed Elameen Alkhidir.** Seismic Time Fractal Dimension for Characterizing Shajara Reservoirs of the Permo – Carboniferous Shajara Formation, Saudi Arabia. Modern Approaches in Oceanography and Petrochemical Sciences. 2018, 2 (1):1-6.

40. **Khalid Elyas Mohamed Elameen Alkhidir.** Electro kinetic fractal dimension for characterizing Shajara reservoirs of the Shajara Formation. International Journal of Nanotechnology in Medicine & Engineering. 2018, 3(4): 1-7.

41. **Khalid Elyas Mohamed Elameen Alkhidir**. Electric Power Fractal

Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Current Research in Petroleum and Environmental Biotechnology. 2018 (1): 1-6.

42. **Khalid Elyas Mohamed Elameen Alkhidir**. Resistivity fractal dimension for characterizing shajara reservoirs of the permocarboniferous shajara formation Saudi Arabia. International Journal of Petrochemical Science & Engineering. 2018, 3(3): 109-112.

43. **Khalid Elyas Mohamed Elameen Alkhidir.** Electric potential gradient fractal dimension for characterizing Shajara Reservoirs of the Permocarboniferous Shajara formation, Saudi Arabia Advances in Petroleum and Chemical Engineering. 2018, 2018(1): 1-6.

44. **Khalid Elyas Mohamed Elameen Alkhidir.** Characterization of the Pemo-Triassic Upper Khuff reservoir central Saudi Arabia: An integrated core plugs, petro fabrics and mercury ingection analysis. Journal of African Earth Sciences. 2018, 145: 284-296.

45. **Khalid Elyas Mohamed Elameen Alkhidir**. Resistivity Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation Saudi Arabia. Recent Advances in Petrochemical Science. 2018 5(2):1-6.

46. **Khalid Elyas Mohamed Elameen AlKhidir**. Seismo electric field fractal dimension for characterizing Shajara reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Academia Journal of Environmental Science. 2018 6(5): 113-120.

47. **Khalid Elyas Mohamed Elameen Alkhidir**. Electro Kinetic Fractal Dimension for Characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. Archives of Oil and Gas Research.2018, 2018 (1): 1-7.

48. **Professor Khalid Elyas Mohamed Elameen AlKhidir.** Seismo Electric Field Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Petroleum & Petrochemical Engineering Journal. 2018, 2(4): 1-7.

49. **Khalid Elyas Mohamed Elameen Alkhidir.** Electric Potential Energy Fractal Dimension for Characterizing Permo-carboniferous Shajara Formation. Expert Opinion on Environmental Biology. 2018, 7(2).

50. **Prof. Khalid Elyas Mohamed Elameen AlKhidir.** Arithmetic relaxation time of induced polarization fractal dimension for characterizing Shajara Reservoirs of the Shajara Formation. Nanoscience and Nanotechnology. 2018, 2 (1): 1-8.

51. **Khalid Elyas Mohamed Elameen Alkhidir. Ph.D**., Geometric relaxation time of induced polarization fractal dimension for characterizing Shajara Reservoirs of the Shajara formation of the PermoCarboniferous Unayzah Group-Permo. International Journal of Petrochemistry and Research. 2018, 2 (1): 105-108.

52. **Khalid Elyas Mohamed Elameen Alkhidir.** Geometric Relaxation Time of Induced Polarization Fractal Dimension For Characterizing Shajara Reservoirs of the Shajara Formation of the Permo-Carboniferous Unayzah Group, Saudi Arabia. SciFed Journal of Petroleum, 2018, 2(1):1, 1-6.

53. **Khalid Elyas Mohamed Elameen Alkhidir**. Pressure Head Fractal Dimension for Characterizing Shajara Reservoirs of the Shajara Formation of the Permo-Carboniferous Unayzah Group, Saudi Arabia. Archives of Petroleum & Environmental Biotechnology. 2017, 2:1-7.

54. K. Hadj-Kalia, **Khalid E. Al-khidir**, Irfan Wazeer, Lahssen El blidi, Sarwono Mulyono, Inas M. AlNashef. Application of deep eutectic solvents and their individual constituents as surfactants for enhanced oil recoveryMohamed .Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2015, 487:221–231.

55. **K Al-Khidir:** M Benzagouta, A Al-Qurishi, A Al Laboun Integrated Petrophysical Parameters and Petrographic Analysis Characterizing Khartam Reservoirs of the Permo-Triassic Khuff Formation, Saudi Arabia. International Journal of Engineering Research and Applications. Vol. 4, Issue 7(Version 4), July 2014, pp.195-203.

56. **K.E. Al-Khidir**, M.S. Benzagouta. TIGHT CARBONATE RESERVOIR CHARACTERIZATION UDC 622.276© Electronic scientific journal "Oil and Gas Business". 2013. № 2, pp. 206-217

57. Mohammed Said Benzagouta, Inas Muen AlNashef, Wimpy Karnanda, and **Khalid Al-Khidir.** Ionic liquids as novel surfactants for potential use in enhanced oil recovery Korean Journal of Chemical Engineering.2013, 30(11), 2108-2117.

58. **K. E. Al-Khidir** & M. S. Benzagouta & A. A. Al-Qurishi &A. A. AlLaboun. Characterization of heterogeneity of the Shajara reservoirs of the Shajara formation of the Permo-Carboniferous Unayzah group. Arabian journal of Geosciences. 2013, 6:3989–3995.

59. **K. E. Al-Khidir**, A. A. Al-Quraishi ,A. A. Al-Laboun, M. S. Benzagouta. Bimodal pore size behavior of the Shajara Formation Reservoirs of the Permo-Carboniferous Unayzah Group, Saudi Arabia.

Journal of Petroleum Exploration and Production Technology. 2011, 1:1–9.

**Conferences:**

1. **Al-Khidir, K. E.**, Al-Laboun, A. A., AlQuraishi, A. A. M. S. Benzagouta. Reservoirs Heterogeneity Characterization of the Shajara Member: Permo-Carboniferous Unayzah Formation. The 2nd Saudi meeting on Oil and Natural Gas Exploration and production Technologies. Conference Location: KFUPM Campus, Dhahran, Saudi Arabia December 18 - 20, 2010 Conference Date: Saturday, December 18, 2010.

2. **K. E. Al-Khidir,** M. S. Benzagouta, A. A. Al-Quraishi & A. A. AlLaboun. Differential Capacity Fractal Dimension and Water Saturation Fractal Dimension as Parameters for Reservoir Characterization: Shajara Formation of the Permo-Carboniferous Unayzah Group as a Case Study. 10th Meeting of the Saudi Society for Geoscience "Geosciences for Sustainable Development"Conference Location: 15-17 April, 2013 KFUPM Campus, Dhahran, Saudi Arabia.Conference Date: Monday, April 15, 2013.

3. Benzagouta M S1 Wimpy Karnanda, Mohamad Amro, Abdul Rahman A AlQuraishi, Inas M Al Nashef, Emad Abdul Rahman Almushaigeh, Mustafa Kinawy, **Khaled Elyas Alkhidir** and Khiari Abdelkader. Surfactants and other factors input for the control of the reservoir Interfacial Tension (IFT) 2nd World Congress on Petrochemistry and Chemical Engineering.Conference Location: October 27-29, 2014 Embassy Suites Las Vegas, USA. Conference Date: Monday, October 27, 2014.

4. **K.E.Al-Khidir.** Induced Polarization Relaxation Time Fractal Dimension Derived from Capillary pressure data for characterizing Shajara Reservoirs of the shajara Formation of the Permo-carboniferous Unayzah group. The Eleventh International Geological Conference 23 – 25 Rajab 1436 12 – 14 May 2015.Conference Location: Riyadh, Saudi Arabia.Conference Date: Tuesday, May 12, 2015.

5. **Khalid Elyas Mohamed Elameen Alkhidir.** Nuclear Magnetic resonance relaxation Time as a Diagnostic Parameter for Reservoir characterization. International conference on Petrochemical Engineering July 10-12, 2017 at Dubai, UAE. "Exploring Innovations and technologies Dubai, UAE Monday, July 10, 2017.

6. **Khalid Al-Khidir.**On the equality of resistivity fractal dimension and geometric relaxation time fractal dimension of induced polarization for

characterizing Shajara Reservoirs of the Shajara Formation of the PermoCarboniferous Unayzah Group, Saudi Arabia. International Meeting on Petroleum Engineering 2017 Singapore; November 7-8, 2017.

7. **Khalid Elyas Mohamed Elameen Alkhidir.** Electric power fractal dimension for characterizing Shajara Reservoirs of the Shajara Formation of the Permo-Carboniferous Unayzah Group, Saudi Arabia. International Conference on Inventive Computing Systems and Applications (ICICSA 2018). April 13-14, 2018.

8. **Khalid Elyas Mohamed Elameen Alkhidir.** Electric potential gradient fractal dimensions for characterizing Shajara reservoirs of the Shajara Formation of the Permo-Carboniferous Unayzah Group, Saudi Arabia. 2nd International Conference on Inventive Communication and Computational Technologies .20-21, April 2018.

9. **Khalid Elyas Mohamed Elameen alkhidir.** On the relationship of pore radius and dimensionless capillary fractal dimensions for characterizing Shajara Reservoirs of the Shajara Formation of the Permo-Carboniferous Unayzah Group, Saudi Arabia. ATE&E 23-26/April/2018, Saudi Arabia.

10. **Khalid Elyas Mohamed Elameen Alkhidir.** Flow rate fractal dimension for characterizing Shajara reservoirs of the Shajara Formation, Saudi Arabia. 2nd International Conference on Petrochemistry April 25-27, 2018 | Rome, Italy.

11. **Khalid Elyas Mohamed Elameen Alkhidir.** Work Fractal Dimension for Characterizing Shajara Reservoirs of the Shajara Formation, Saudi Arabia. 3rd World Congress & Expo on Oil, Gas, & Petroleum April 1617, 2018. Dubai, UAE.

12. **Khalid Elyas Mohamed Elameen Alkhidir**. Electro kinetic fractal dimension for characterizing Shajara reservoirs of the Shajara Formation, Saudi Arabia. 2nd World Congress & Expo on Nanotechnology & Materials Science. June 25-27, 2018 | Dubai, UAE.

13. **Khalid Elyas Mohamed Elameen Alkhidir**. Effective grain diameter fractal dimension for characterizing Shajara reservoirs of the Shajara Formation, Saudi Arabia. World Congress on Petrochemistry and Chemical Engineering June 28-30, 2018 | Dubai, UAE

14. **Khalid Elyas Mohamed Elameen Alkhidir**. Seismo electric transfer function fractal dimension for characterizing Shajara reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. World Congress on Petrochemistry and Chemical Engineering. June 28-30, 2018 Dubai, UAE**.**

15. **Khalid Elyas Mohamed Elameen Alkhidir.** Number of moles fractal dimensions for characterizing Shajara reservoirs of the Shajara Formation, SaudiArabia. Petroleum Engineering and Natural Gas Recovery. July 20-21, 2018, Sydeny Australia.

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17. **Khalid Elyas Mohamed Elameen AlKhidir**. On similarity of differential capacity and capillary pressure fractal dimensions for characterizing Shajara reservoirs of the Shajara Formation, Saudi Arabia. 6th International Conference on Marine Science Coastal Dynamics and Management, September 21-22, 2018 Dallas, Texas, USA

18. **Khalid Elyas Mohamed Elameen Alkhidir**. Seismo mechanical force fractal dimension for characterizing Shajara reservoirs of the Permocarboniferous Shajara Formation Saudi Arabia. 3rd International Conference and Expo on Petrochemistry & Natural Resources. October 22-23, 2018, Prague. Czech Republic.

19. **Khalid Elyas Mohamed Elameen AlKhidir.** Electric current density fractal dimensions for characterizing Shajara Reservoirs of the Shajara formation, Saudi Arabia. 10th International conference & Expo on Reservoir Engineering for Exterme Oil & Gas Environments Oct 31-Nov 1, 2018 Buenos Aires, Argentina.

20. **Khalid Elyas Mohamed Elameen AlKhidir.** On similarity of differential capacity and capillary pressure fractal dimensions for characterizing Shajara reservoirs of the Shajara Formation, Saudi Arabia. Artificial Intelligence & Robotics 05-07, November 2018, Frankfurt, Germany.

21. **Khalid Elyas Mohamed Elameen AlKhidir.** Seismo mechanical Energy Fractal Dimension for characterizing Shajara reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. 2nd International Oil and Gas Conference 3-5 December, 2018, UAE.

22. **Khalid Elyas Mohamed Elameen Alkhidir**. Seismo electric bio availability fractal dimension for characterizing Shajara reservoirs of the Permo -Carboniferous Shajara Formation, Saudi Arabia. International Conference on Petroleum Engineering Oil and Gas December 06-07, 2018 Dubai, UAE Journal of Industrial and Environmental Chemistry

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24. **Khalid Elyas Mohamed Elameen Alkhidir**. Seismo electric bio availability fractal dimension for characterizing Shajara reservoirs of the Permo – Carboniferous Shajara Formation, Saudi Arabia. 3rd World Congress & Expo on Biotechnology and Bioengineering. March 25-26, 2019 | Dubai, UAE

25. **Khalid Elyas Mohamed Elameen Alkhidir.** Seismo electric field fractal dimension for characterizing Shajara reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. 5th World Congress &

    Expo on Oil, Gas, & Petroleum Engineering. March 28-29, 2019 at Milan, Italy. (WCEOGPE-2019)

26. **Khalid Elyas Mohamed Elameen Alkhidir**. Seismic shear wave velocity fractal dimension for characterizing shajara reservoirs of the permo – carboniferous shajara formation, Saudi Arabia. 4th World Congress on Petroleum and Refinery, May 20-21, 2019, Osaka, Japan.

27. **Khalid Elyas Mohamed Elameen Alkhidir.** On Similarity of Seismo Magnetic Field and Pressure head fractal dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. 2 nd Euro Chemistry Conference, 2019, June 17-19, Spain.

28. **Prof. Khalid Elyas Mohamed Elameen Alkhidir**, Seismo Electric Bio Availability Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation Saudi Arabia. 3rd World Congress and Expo on Biotechnology and Bioengineering, September, 23, 2019, Dubai, UAE.

29. **Prof. Khalid Elyas Mohamed Elameen Alkhidir**, Ph.D. Molar enthalpy fractal dimension for characterizing Shajara Reservoirs of the PermoCarboniferous Shajara Formation, Saudi Arabia. 4th International Conference on Oil, Gas & Petrochemistry, September 23-24, 2019, Pullman Kuala Lumpur Bangsar Malaysia.

30. **Dr. Khalid Elyas Mohamed Elameen Alkhidir.** Seismo radiant energy fractal dimension for characterizing Shajara reservoirs of the permoCarboniferous Shajara formation Saudi Arabia. 3rd International Conference on Materials Science and Materials Chemistry during October 14-15, 2019 at Vienna, Austria

31. **Prof. Khalid Elyas Mohamed Elameen Alkhidir,Ph.D.** Seismo Magnetic Bioavailability Fractal dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation Saudi Arabia. International Field Exploration and Development conference 16-18 October 2019, Xian, China Paper serial number IFEDC 20194704.

32. **Prof. Khalid Elyas Mohamed Elameen Alkhidir, Ph.D**. Seismo magnetic moment fractal dimensions for characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. World Congress on Oil and Natural Gas, October 24-25, 2019, Valencia, Spain.

33. **Khalid Elyas Mohamed Elameen Alkhidir.** Seismo radial grain velocity fractal dimension for characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia. Earth Science, Geology, Oil and Gas, December 2-3, 2019, Kuala Lumpur, Malaysia.

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45. **Dr. Khalid Elyas Mohamed Elameen Alkhidir** Connected Reservoir Storage Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia **World Congress on Earth** Science and Climate Change" to be held during October 07-08, 2020, Gao, India as Webinar

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47. **Prof. Doctor Khalid Elyas Mohamed Elameen Alkhidir,Ph.D Equation of** State Molar Volume Fractal dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia 2nd World Congress On Earth Science And Climate Change January 14 - 15, 2021

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52. **Prof. Doctor Khalid Elyas Mohamed Elameen Alkhidir** hydraulic Conductivity Fractal Dimension for Characterizing Shajara Reservoirs of the Permo-Carboniferous Shajara Formation, Saudi Arabia (IPNG 2021) August 23-24

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**Accepted review ISI papers in Journal of petroleum Science and Engineering by Professor Doctor / Khalid Elyas Mohamed Elameen AlKhidir**

1. Tianshou Ma, Ph.D. **Finite element simulation of formation testing while drilling accounting for thermal-hydro-mechanical coupling** Geoenergy Science and engineering

2. Pan Fang, Ph.D. **Characteristics of cuttings migration with new cuttings removal device in horizontal wel**l Geoenergy Science and Engineering.

3. Peng Lu Effects of **inorganic CO2 intrusion on diagenesis and reservoir quality of lacustrine conglomerate sandstones: Implications for geological carbon sequestration** Geoenergy science and engineering

4. Dongmei Zhang et al **Research on seismic hydrocarbon prediction based on a self-attention semi-supervised model** Geoenergy Science and engineering

5. Sina Talebi et al **Enhancement of CO$_2$ viscosity prediction using advanced intelligent methods: Application to carbon capture and storage** Geoenergy Science and Engineering

6. Sandong Zhou, Ph.D **Chlorite characterization and diagenetic evolution as primary controls on Zhuhai Formation sandstone reservoir quality in Zhu-III sag, Pearl River Mouth Basin, South China Sea** Geoenergy Science and Engineering.

7. Junjie Zhong **Simulation of the water self-imbibition in the nanometer throat-pore structure filled with oil** Journal of petroleum science and Engineering

8. Jingwei**Oil and gas accumulation periods and charging path of cont inental lake basin: A case study of Chang 9Chang 10 oil reservoir Yanchang Formation in Ordos Basin** Journal of petroleum science and Engineering 2022

9. Renhai Pu **Impacts of mineralogy and pore throat structure on the movable fluid of tight sandstone gas reservoirs in coal measure strata: A case study of the Shanxi Formation along the southeastern margin of the Ordos Basin** Journal of petroleum science and Engineering 2022

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**from imidazolium family.** Journal of petroleum science and Engineering 2022

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14. Amna M.Handhal Frank R.Ettensohn Alaa M.Al-Abadi Maher J.Ismail **Spatial assessment of gross vertical reservoir heterogeneity using geostatistics and GIS-based machine-learning classifiers: A case study from the Zubair Formation, Rumaila oil field, southern Iraq** Journal of Petroleum Science and Engineering 2021.

15. SinaTalebi Fateme Reisi **A Clustering Approach for EOS Lumping — Using Evolutionary-based Metaheuristic Optimization Algorithms** Journal of Petroleum Science and Engineering 2021

16. Yi Xue Jia Liu P.G.Ranjith XinLiang Songhe Wang **Investigation of the influence of gas fracturing on fracturing characteristics of coal mass and gas extraction efficiency based on a multi-physical field model** Journal of Petroleum Science and Engineering 2021

17. Yonghui Wu Linsong Cheng John Killough Shijun Huang Sidong FangPin Jia Renyi Cao Yongchao Xue **Integrated Characterization of the Fracture Network in Fractured Shale Gas Reservoirs Stochastic Fracture Modeling, Simulation and Assisted History Matching** Journal of Petroleum Science and Engineering 2021

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1. Renhai Pu, Ph.D. **Longshore changes in the microfacies and distribution of clastic barrier coastal sandbodies—A case from the Benxi Formation in the Ordos Basin, China** Journal of Petroleum Exploration and Production Technology

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4. Qi Deng **Performance of Multistage-Fractured Horizontal Wells with Secondary Discrete Fractures in Heterogeneous Tight Reservoirs** Journal of Petroleum Exploration and Production Technology.

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6. Nurul Aimi Ghazali **The Effect of High-Temperature Environment on the Rheology and Filtration Properties of Rhizophora spp. Tannin Lignosulfonate as Bio-based Additive in Water-based Drilling Fluid.** Journal of Petroleum Exploration and Production Technology.

7. Mohammad Hassanpour Sedghi Assant Professor **Prediction of wellbore sand production potential from analysis of petrophysical data coupled with field-stress: a case study from the Shah-Deniz gas field, (Caspian Sea Basin)**. Journal of Petroleum Exploration and Production Technology.

8. Mohammad Khanehbad Pd.D. **Geochemical Evaluation and Source Rock Zonation by Multi-Layer Perceptron Neural Network Technique. A case study for Pabdeh and Gurpi Formations-North Dezful Embayment (SW Iran)** Journal of Petroleum Exploration and Production Technology

9. Golnaz Jozanikohan, Ph.D **Estimation of Porosity and Volume of Shale using Artificial Intelligence, Case Study of Kashafrud Gas Reservoir, NE Iran,** Journal of petroleum Exploration and Production Technology

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