

Professor Musaed N. J. AlAwad

(Academic Activities During the Past 5 Years)

Scientific Databases

1. **Google Scholar**
<https://scholar.google.com/citations?hl=en&user=urAdbGsAAAAJ>
2. **Research Gate**
<https://www.researchgate.net/profile/Musaed-Alawad>
3. **ORCID Link**
<https://orcid.org/0000-0002-1931-5147>
4. **Web of Science Researcher ID**
ITU-5449-2023

Conferences and Symposia Articles

1. **Musaed N. J. AlAwad**, K. A. Fattah and Ahmed AlGobany: "Superior Fracture Seal Material Using Crushed Date Palm Seeds for Oil and Gas Well Drilling Operations.", 3rd World Conference on Byproducts of Palms (ByPalma-2023, Riyadh, KSA), 5-8 Dec. **2023**.
2. **Musaed N. J. AlAwad**: "Modification of the Brazilian Indirect Tensile Strength Formula for Better Estimation of the Tensile Strength.", IFEDC20219814 Online Presentation at the International Field Exploration & Development Conference, Chengdu, China, Oct. 20 to 22, **2021**.
3. **Musaed N. J. AlAwad**: "Oil Wellbore Strengthening: New Experimental and Theoretical Approaches.", Paper # IFEDC-20206371 Online Presentation at the International Field Exploration & Development Conference 2020, Chengdu, China September 23 to 25, **2020**.
4. **Musaed N. J. AlAwad**: "A Rock Mechanical Model for Overbalanced, Managed Pressure, and Underbalanced Drilling Applications", 13th EURO Conference on Rock Physics and Geomechanics, Potsdam, Germany, 2 to 6 September **2019**.

Journal Articles (Submitted for Publication)

1. K. A. Fattah, **Musaed N. J. AlAwad**, AbdulRahman AlMalki, and Ahmed AlHamami: "Testing the Potential Suitability of a Saudi Yamama Portland Type 1 Cement for Oil and Gas Well Cementing Operations.", Submitted for Publication, February **2024**.
2. K. A. Fattah, **Musaed N. J. AlAwad**, and Salem S. Ba Saloom: "Experimental Investigation of the Influence of Barite Nano Particles on Rheological Properties and Formation Damages During Drilling Operations.", Submitted for Publication, February **2024**.

Journal Articles

1. **Musaed N. J. AlAwad**: "Remarks on the World's Current Energy Supply and Demand.", Journal of King Saud University, Engineering Sciences, Volume 34, Issue 7, Page 351, November **2022**.
2. **Musaed N. J. AlAwad**: "A New Approach for Understanding the Mechanism of Wellbore Strengthening Theory." Journal of King Saud University, Engineering Sciences, Volume 34, pp. 67 to 76, **2022**.
3. **Musaed N. J. AlAwad**: "Modification of the Brazilian Indirect Tensile Strength Formula for Better Estimation of the Tensile Strength of Rocks & Rock Like Geomaterials.", Journal of King Saud University, Engineering Sciences, Volume 34, pp. 147-154, **2022**.

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4. **Musaed N. J. AlAwad** and K. A. Fattah: "Superior Fracture Seal Material Using Crushed Date Palm Seeds for Oil and Gas Well Drilling Operations.", Journal of King Saud University, Engineering Sciences, Volume No. 31, p. 97 to 103, **2019**.

Patents

1. Hamdan AlYamy, Abdulrahman AlQuraishi, **Musaed AlAwad**, and Mohammed AlQarni: "New Innovative Technique to Prevent Sand Production from Water, Oil and Gas Wells" Granted Patent # SA 13656 B1, Saudi Authority for intellectual Property, Sep. 6th, **2023**.

Supervised Theses

1. M.Sc. Ongoing Thesis for Salim Basloom (Principal Advisor: K. A. Fattah, Co-Advisor: Professor **Musaed N. J. AlAwad**): "Experimental Investigation of the influence of Barite Nanoparticles on Anti-Sag, Rheological Properties and Formation Damages during Drilling Operations.", November **2021**.
2. M.Sc. Completed Thesis for Ahmed Ali AlGobany (Principal Advisor: Professor **Musaed N. J. AlAwad**, Co-Advisor: K. A. Fattah): "Development of a Fracture Seal Material Using Crushed Date Palm Seeds for Oil and Gas Well Drilling Operation", September **2019**.