Dr. Walid Mahmud's List of Publications:

- 1. Walid Mohamed Mahmud and Viet Hoai Nguyen: "Effects of Snap-Off in Imbibition in Porous Media with Different Spatial Correlations," Transport in Porous Media, Volume 64, Number 3, September 2006, 279-300.
- 2. Walid Mohamed Mahmud, Ji Youn Arns, Adrian Sheppard, Mark A. Knackstedt and W. Val Pinczewski: "Effect of Network Topology on Two-Phase Imbibition Relative Permeability", Transport in Porous Media, Volume 66, Number 3, February 2007, 481-493.
- 3. Walid Mohamed Mahmud: "The Effect of Fluid Saturation Profiles on Three-Phase Oil Relative Permeabilities and Oil Recovery," paper SPE 108328 presented at the 2007 SPE Annual Technical Conference and Exhibition, Anaheim, California, USA, 11–14 November.
- 4. Khulud Rahuma and Walid Mahmud: "Computing of Petrophysical Properties for Dolomite and Quartzite Reservoir Formations" Electronic scientific journal "Oil and Gas Business", 2013, No 1, http://www.ogbus.ru
- 5. Saleh Arwini and Wild Mahmud: "Study of Multiphase Flow in Inclined Wells Field Case Study" paper MPC-14-23 presented at The Thirteenth Mediterranean Petroleum Conference and Exhibition (MPC2014) held in Istanbul, Turkey 14-16 October 2014.
- 6. Walid Mohamed Mahmud, Saleh Arwini and Mohamed Lalah: "Experimental and Network Model Study on the effect of Network Topology on Two-Phase Imbibition Relative Permeability" paper MPC-14-22 presented at The Thirteenth Mediterranean Petroleum Conference and Exhibition (MPC2014) held in Istanbul, Turkey 14-16 October 2014.
- 7.M. KH Khalifa, WM Mahmud, AF Alta'ee and KJ Mills: "Sequence stratigraphic analysis of fluvial deposits using facies characterization and wireline log correlation: case of the late Early-early Middle Devonian Snake Cave Interval, Darling Basin, Australia", Arabian Journal of Geosciences: November 2015, Volume 8, Issue 11, pp. 9733-9752
- 8.M.KH. Khalifa , BG Jones, WM Mahmud: "Lithostratigraphic and sequence stratigraphic architecture of the Winduck Interval, central Darling Basin, Australia, based on integration of wireline logs, cores and cuttings data", International Journal of Earth Sciences: September 2015, 1-18 .
- 9.Walid Mohamed Mahmud "Experimental Validation of Two-Phase Imbibition Relative Permeability with a Stochastic Model Taking into Account the Effects of Correlations", MOC 8th Mediterranean Offshore Conference and Exhibition, Alexandria, Egypt, 19-21 April 2016.
- 10. Walid Mohamed Mahmud and Saber Elmabrouk "Drilling Rig Selection and Cost Analysis: a Comparison of Top Drive and Rotary Table Drilling Systems", paper presented at the International Conference on Industrial Engineering and Operations Management, Detroit, September 23-25, 2016.
- 11. Saber Elmabrouk and Walid Mohamed Mahmud "Reservoir Management Strategies for Development of Water Injection Planning Project", paper presented at the International Conference on Industrial Engineering and Operations Management, Detroit, September 23-25, 2016.

- 12. Walid Mohamed Mahmud and Saber Kh. Elmabrouk "Prediction of Trip, Connection and Total Times for Top Drive and Kelly Drilling Rig Systems", paper presented at The 1st International Conference on Chemical, Petroleum, and Gas Engineering (ICCPGE 2016) 20th–22thDecember 2016, Alkhoms-Libya
- 13. Walid Mohamed Mahmud "Effect of Network Topology on Relative Permeability; Network Model and Experimental Approaches", International Journal of Oil, Gas and Coal Engineering, Volume 5, Issue 5, September 2017, Pages: 90-96
- 14. Saber Kh. Elmabrouk, Husen E. Bader and Walid Mohamed Mahmud "An Overview of Power Plant CCS and CO2-EOR Projects" paper presented at the International Conference on Industrial Engineering and Operations Management, Rabat, Morocco, April 11-13, 2017.
- 15. Hassan M. Sbiga, Saber Elmabrouk and Walid Mohamed Mahmud "Factors Affecting Special Core Analysis Resistivity Parameters" paper presented at the International Conference on Industrial Engineering and Operations Management, Rabat, Morocco, April 11-13, 2017.
- 16. Walid Mohamed Mahmud, Saber Kh. Elmabrouk and Hussam Ed. M. Abdul Jaliel "Assessment of Scale Removal by Chemical and Underbalance Mechanical Treatments" paper presented at the International Conference on Industrial Engineering and Operations Management, Rabat, Morocco, April 11-13, 2017.
- 17. Walid Mohamed Mahmud, Saber Elmabrouk and Hisham Khaled Ben Mahmud "Investigating Relative Permeability Measurements using Unsteady-State Core Flooding Method", International Journal of Petroleum and Petrochemical Engineering (IJPPE), Volume 3, Issue 4, 2017, PP 54-64.
- 18. Walid Mohamed Mahmud, Saber Kh. Elmabrouk and Hassan M. Sbiga "Sensitivity Analysis of the Gas Compressibility Factor" Paper presented at the 8th International Conference in Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018.
- 19.Hassan M. Sbiga, Saber Kh. Elmabrouk and Walid Mohamed Mahmud "Prediction of Relative Permeability From Experimental Resistance Index and Capillary Pressure Data", Paper presented at the 8th International Conference in Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018.
- 20. Saber Kh. Elmabrouk, Walid Mohamed Mahmud and Hassan M. Sbiga "Calculation of EUR form Oil and Water Production Data", Paper presented at the 8th International Conference in Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018.
- 21.T. Sabila, HK Ben Mahmud, WM Mahmud and MIJ Van Dijke "Two-Phase Oil-Water Empirical Correlation Models for SCAL and Petrophysical Properties in Intermediate Wet Sandstone Reservoirs", Paper presented at the 11th Curtin University Technology, Science and Engineering (CUTSE) International Conference at Curtin University Malaysia, Miri, Sarawak, Malaysia, November 26-28, 2018.
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23. Potential of Low-Salinity Waterflooding Technology to improve oil recovery

By Hisham Ben Mahmud, Shattia Arumugam and Walid Mahmud

September 12th 2019. DOI: 10.5772/intechopen.88082

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- 27. Hisham Ben Mahmud, Mansur Ermila, Ziad Bennour and Walid Mohamed Mahmud

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- 29. Hisham Ben Mahmud, Walid Mohamed Mahmud, Rugen Ayanarappan, and Saber Elmabrouk, "Effect of Sodium Carbonate and Bicarbonate Contamination on the Rheological Properties of Water Based Mud", International Journal of Engineering Research and Technology. ISSN 0974-3154, Volume 13, Number 5 (2020), pp. 1019-1029
- 30.W. M. Mahmud, O. E. Abdussalam, Ziad Bennour and M. Ermila, "Relative permeability of heterogeneous mixed-wet porous media as determined by pore-scale JBN based model",

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- 33. Walid Mohamed Mahmud and Ziad Bennour, "Case Study of Petrophysical Evaluation Utilizing Well Logs Data with Optimization of Reservoir Cut-off Parameters", International Journal of Petroleum Technology, 2020, 7, 45-59.
- 33.Hisham Ben Mahmud, Walid Mohamed Mahmud, Ali Al-Rubaie, "Modeling Interaction Between CO2, Brine and Chalk Reservoir Rock Including Temperature Effect on Petrophysical Properties", Energy Geoscience, 2021.
- 34. Walid Mohamed Mahmud, "Rate-Controlled Mercury Injection Experiments to Characterize Pore Space Geometry of Berea Sandstone" Presented at the 34th International Symposium of the Society of Core Analysts, Austin, Texas, USA, 13-16 September 2021.
- 35.Walid Mohamed Mahmud, Omran Elhamali Abdussalam, Yousef Swissi, Saber Kh. Elmabrouk, "Case Study Of Gravity And Power Assisted Dump Floods Implemented In A Mature Oil Field" Paper SPE 22419 presented at the International Petroleum Technology Conference (IPTC), Riyadh, Kingdom of Saudi Arabia, 21–23 February 2022.
- 36. Hisham Khaled Ben Mahmud, Walid Mohamed Mahmud, Mian Umer Shafiq et al. "Application of Nanotechnology in EOR" In book: Application of Nanotechnology in Enhanced Oil Recovery, Publisher: Springer. DOI: 10.1007/978-981-16-6022-1
- 37.Saber Kh. Elmabrouk and Walid Mohamed Mahmud "Production Data Analysis Techniques for the Evaluation of the Estimated Ultimate Recovery (EUR) in Oil and Gas Reservoirs" HighTech And Innovation Journal, Vol 3, No 1 (2022).

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