



Dr. Muhammadu Rabiu Ado

Assistant Professor

Personal Data:

Nationality | Nigerian Date of Hire | 12th September 2018 Date Rank Obtained | 12th September 2018 Department | Chemical Engineering Email | mado@kfu.edu.sa Office No | 2047 Office Phone No | 0135897087



Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Chemical Engineering	Petroleum Engineering	University of Nottingham, UK	Nottingham, UK	13th July 2017
Masters (M.Sc.)	-	-	-	-	-
Bachelor (B.Sc.)	Chemical Engineering	Chemical Engineering	University of Nottingham, UK	Nottingham, UK	18th July 2013

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Numerical simulation of heavy oil and bitumen recovery and upgrading techniques	
Master	-	

Experiences:

Title of Job	Address of Work	Country	Date	
National Youth Service Corps	Chemical and Petroleum Engineering	Nigeria	From	May 2017
(NYSC) Member	Department, Bayero University Kano	Nigena	То	April 2018
Postgraduate Teaching and	Department of Chemical and Environmental Engineering University	IJК	From	Oct. 2013
Marking Assistant	of Nottingham	ΟK	То	March 2017
Resident Tutor	Hugh Stewart Hall, University of Nottingham	UW	From	Sep. 2014
Resident Tutor		UK	То	Sep. 2015
Engineering Foundation Year Demonstrator and Marking	University Park, University of	IIK	From	Sep. 2013
Assistant	Nottingham	UK	То	Sep. 2015
Graduata Basaarah Assistant	University Park, University of	UW	From	Jun. 2013
Gladuate Research Assistant	Nottingham	UK	То	Sep. 2014
Undergraduate Research	University Park, University of	UK	From	Jun. 2012
Assistant	Nottingham	UK	То	Aug. 2012

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Research Interests:

- 1. Thermal enhanced oil recovery
- 2. Reservoir simulation
- 3. In situ catalytic upgrading of heavy oils and bitumen

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Ado, M. R.	Improving oil recovery rates in THAI in situ combustion process using pure oxygen	Upstream Oil Gas Technology, 2021	Click Here
2	Ado, M. R.	Understanding the mobilised oil drainage dynamics inside laboratory-scale and field- scale reservoirs for more accurate THAI process design and operation procedures	Journal of Petroleum Exploration and Production Technology, 2021	<u>Click Here</u>
3	Ado, M. R.	Improving heavy oil production rates in THAI process using wells configured in a staggered line drive (SLD) instead of in a direct line drive (DLD) configuration: detailed simulation investigations	Journal of Petroleum Exploration and Production Technology, 2021	<u>Click Here</u>
4	Ado, M. R.	Detailed investigations of the influence of catalyst packing porosity on the performance of THAI-CAPRI process for in situ catalytic upgrading of heavy oil and bitumen	Journal of Petroleum Exploration and Production Technology, 2021	<u>Click Here</u>
5	Ado, M. R.	Use of two vertical injectors in place of a horizontal injector to improve the efficiency and stability of THAI in situ combustion process for producing heavy oils	Journal of Petroleum Exploration and Production Technology, 2021	<u>Click Here</u>
6	Ado, M. R.	Comparisons of predictive ability of THAI in situ combustion process models with pre- defined fuel against that having fuel deposited based on Arrhenius kinetics parameters	Journal of Petroleum Science and Engineering, 2021	<u>Click Here</u>
7	Ado, M. R., Greaves, M., Rigby, S. P.	Effect of operating pressure on the performance of THAI-CAPRI in situ combustion and in situ catalytic process for simultaneous thermal and catalytic upgrading of heavy oils and bitumen	Petroleum Research, 2021	<u>Click Here</u>
8	Ado, M. R., Greaves, M., Rigby, S. P.	Simulation of catalytic upgrading in CAPRI, an add-on process to novel in-situ combustion, THAI	Petroleum Research, 2021	<u>Click Here</u>
9	Ado, M. R.	Impacts of Kinetics Scheme Used to Simulate Toe-to-Heel Air Injection (THAI) in	ACS Omega, 2020	Click Here





		Situ Combustion Method for Heavy Oil Upgrading and Production		
10	Ado, M. R.	Predictive capability of field scale kinetics for simulating toe-to-heel air injection heavy oil and bitumen upgrading and production technology	Journal of Petroleum Science and Engineering, 2020	<u>Click Here</u>
11	Ado, M. R.	A detailed approach to up-scaling of the Toe-to-Heel Air Injection (THAI) In-Situ Combustion enhanced heavy oil recovery process	Journal of Petroleum Science and Engineering, 2020	<u>Click Here</u>
12	Ado, M. R.	Effect of reservoir pay thickness on the performance of the THAI heavy oil and bitumen upgrading and production process	Journal of Petroleum Exploration and Production Technology, 2021	<u>Click Here</u>
13	Ado, M. R.	Simulation study on the effect of reservoir bottom water on the performance of the THAI in-situ combustion technology for heavy oil/tar sand upgrading and recovery	SN Applied Sciences, 2020	<u>Click Here</u>
14	Ado, M. R., Greaves, M., Rigby, S. P.	Numerical simulation of the impact of geological heterogeneity on performance and safety of THAI heavy oil production process	Journal of Petroleum Science and Engineering, 2019	<u>Click Here</u>
15	Ado, M. R., Greaves, M., Rigby, S. P.	Effect of pre-ignition heating cycle method, air injection flux, and reservoir viscosity on the THAI heavy oil recovery process	Journal of Petroleum Science and Engineering, 2018	<u>Click Here</u>
16	Ado, M. R., Greaves, M., Rigby, S. P.	Dynamic Simulation of the Toe-to-Heel Air Injection Heavy Oil Recovery Process	Energy & Fuel, 2017	Click Here

Language Proficiency:

- 1. English (Full proficiency)
- 2. Hausa (Native speaker)
- 3. Arabic (Elementary level)