Prof. Ali A. Rabah

• Email: rabahss@hotmail.com • Cell: +249(0)912883212

Researchgate account: https://www.researchgate.net/profile/Ali_Rabah

Google Scholar: https://scholar.google.com/citations?user=CbYuzm4AAAAJ&hl=en

Summary

I am a full Professor of chemical engineering at t**he** University of Khartoum, Sudan, since 2014. Excellent research and strong publications record in chemical engineering **(Energy)**. Teaching core chemical engineering subjects of thermodynamics, transport phenomena, unit operation**,** and process safety. Hands-on e**xperience** in academic administration and management (e.g. Dean Faculty of Engineering and University Secretary for Academic Affairs).

Education

2000-2003	**PhD** in Mechanical Engineering Institute for Thermodynamics Leibniz University of Hannover, Germany Supervisor: Prof. Dr.-Ing. S. Kabelac
1993-1996	**MSc** in Mechanical Engineering University of Nairobi, Kenya Supervisor: Dr. Paul W. Murray
1984-1989	**BSc** in Chemical Engineering University of Khartoum, Sudan

Certification

2019	Project Management Professional (**PMP**) PMI, USA
2017	Chartered Engineer: The Institution of Professional Engineers New Zealand Inc (IPENZ)
2012	Fellow Engineer: Sudan Engineering Society

Postdoctoral and Sabbatical leaves

2018-2018	**University of Auckland, New Zealand** **Department of Chemical and Material Engineering** **Sabbatical Research** **Project:** Energy, Exergy, and Pinch Analysis of Organic Rankine Cycle (ORC).
2007-2008	**Helmut Schmidt University - University of the Federal Armed Forces Hamburg, Institute for thermodynamics**

Postdoctoral scholarship: Alexander von Humboldt Foundation Postdoctoral Fellowship
Project: Solar Desiccant Cooling for Hot and Humid Climate

Teaching experience

2003-2022 **University of Khartoum, Sudan**

BSc

- Thermodynamics
- Heat transfer
- Process Integration
- Transport Phenomena
- Unit operation
- HAZOP

MSc

- Advanced Thermodynamics
- Advanced Heat transfer
- Energy Management
- Transport Phenomena
- Process Safety
- Environmental Impact Assessment (EIA)

2000-2003 **Leibniz University of Hannover, Germany**

- Thermodynamics
- Heat Transfer

1993-1996 **University of Nairobi, Kenya**
Engineering Drawing

Administration & Management at the University of Khartoum

2022-date	Secretary for Academic Affairs
2014-2018	Dean faculty of engineering
2012-2014	Deputy, University principal
2010-2012	Deputy, Dean of Engineering for Academic Affairs
2008-2010	Head, Chemical Engineering Department
2003-2006	Coordinator, Postgraduate Program

Industry Experiences (Consultant)

2018-2022	Energy Audit of buildings & Industry
2018	Environmental Impact Assessment (EIA) of a 1200 km (Portsudan-Rabak) NG pipeline, Sunagas Consultant
2018	Asset valuation of chemical industries (10 factories)
2018	Environmental Impact Assessment (EIA) of an LPG terminal, Sunagas
2017	HAZOP of 18 MW a Thermal Power Plant of Khartoum Refinery Corporation
2016	Energy Audit of Khartoum Refinery Corporation (KRC)
2016	Environmental Impact Assessment (EIA) of a Multiproduct Oil Pipeline, Aljili-Madani, Ministry of Energy and Mining
2015	Energy Audit of Obied Refinery Corporation (ORC)
2012	Assessment of Wastewater Treatment Plant of Senar Sugar factory

Publications

Journal	https://scholar.google.com/citations?user=CbYuzm4AAAAJ&hl=en
Books	1. Rabah, A. A. (2020). Heat Transfer-Detailed Approach, U. of Khartoum 2. Rabah, A. A. (2003). Flow boiling of pure refrigerants and binary refrigerant mixtures in a horizontal tube, Shaker Verlag, Aachen. (ISBN 3-8322-1810-6).
Patents	Ahmed, A. A. Mohamed, Rabah, A. A., (2008). Nile Blend Crude Oil: Wax Separation Using MEK-Toluene Mixtures. Patent No 1581, Intellectual property (Sudan).