

# MOMIN ELHADI ABDALLA

**B.SC,M.Sc,M.SES,M.VDI,Dr.-Ing.**

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## Education

<b>Gottfried Wilhelm Leibniz University Hannover</b> , Institute for Thermodynamics, Faculty of Mechanical Engineering, <b>Germany. Doctor of Engineering (Dr.-Ing.).</b>	<b>Oct.2011-Oct.2014</b>
<b>DID Deutsch Institute-</b> Higher <b>German Language Diploma</b> , Berlin , <b>Germany.</b>	<b>Oct.2010-Mar.2011</b>
<b>University Of Khartoum</b> , Faculty of Graduate College, Department of Chemical Engineering, <b>Master of Science in Chemical Engineering</b> , Khartoum, <b>Sudan.</b>	<b>2007-2009</b>
<b>University Of Khartoum</b> , Faculty of Engineering, Department of Chemical Engineering, <b>Bachelor of Science (Honours) in Chemical Engineering</b> , (First Class), Khartoum- <b>Sudan.</b>	<b>2001-2006</b>

## Experience

<b>Assistant Professor, University of Khartoum, Faculty of Engineering, Chemical Engineering Department, Sudan.</b> Teaching and Administrative -related responsibilities: <ul style="list-style-type: none"><li>- Chemical Engineering Thermodynamics.</li><li>- Process Instrumentations.</li><li>- Thermodynamics of Mixture.</li><li>- Molecular Thermodynamics of Fluid Phase Equilibria.</li><li>- Ionic liquids and polymer thermodynamics.</li></ul>	<b>Dec.2014-present</b>
<b>Research Assistant, Institute for Thermodynamics, Faculty of Mechanical Engineering, Gottfried Wilhelm Leibniz University Hannover- Germany.</b>	<b>Oct.2011-Oct.2014</b>
<b>RWE-Power Plant, Düsseldorf-NordrheinWestfalen-Germany.</b>	<b>May.2013</b>
<b>BASF-Chemical Company, Düsseldorf-Nordrhein-Westfalen-Germany.</b>	<b>May.2013</b>
<b>Anton Paar GmbH, Stuttgart-Germany.</b> Accurate Density Measurements of Fluids , Vibrating Tube Densitometer Apparatuses.	<b>April.2013</b>
<b>Research Assistant, Institute for Thermodynamics, Faculty of Mechanical Engineering, Helmut Schmidt University-University of the Federal Armed Forces- Hamburg-Germany.</b>	<b>Mar.2011-Oct.2011</b>
<b>Lecturer, University of Khartoum, Faculty of Engineering, Chemical Engineering Department, Sudan.</b> Teaching-related responsibilities - holding office hours; grading homework and exams; administering tests, exams; and assisting professors in lecture class, laboratories work, discussion sessions, research assistant activities. <i>mainly in the subjects:</i> <ul style="list-style-type: none"><li>- Process and Plant Design.</li><li>- Engineering Management.</li><li>- Process Safety &amp; Environmental Engineering.</li><li>- Unit Operation and Chemistry Lab.</li></ul>	<b>2009-2010</b>

## Technical Skills

Improving skills in:

Microsoft Office applications, Using Internet, Chemcad, Superpro. Designer, EES Program, MATLAB, HYSYS, Dortmund Data Bank (DDB), ThermoSolver, Refprop, ANSYS, Computational fluid dynamics, Fluent, COSMOtherm.

## Awards

- Ministry of Higher Education, scholarship for M.Sc program, **2007-2009**, Sudan.
- German Academic Exchange Services (DAAD), scholarship for Doctoral program, **2010-2014**, Germany.

## Organizational Skills

- Member, Sudan Engineering Society, **SES**.
- Member, Association of German Engineers (Verein Deutscher Ingenieure, Nr.11122263, **VDI**).
- Reporter, Chemical Engineering Department, Khartoum University, 2015.
- Member of department issuing committee for B.Sc and M.Sc. certificates.

## Languages Spoken

	Understanding	Speaking	Writing
Arabic	Excellent	Excellent	Excellent
English	V. Good	V. Good	V. Good
German	V. Good	Good	Good

## Publications

- 1- Momin E. Abdalla: Density and Phase Equilibria of the Environmentally Friendly Refrigerant Mixture {R152a, R365mfc}; Dichte und Phasengleichgewichte des umweltverträglichen Kältemittelgemisches {R152a, R365mfc}, Doctoral dissertation:
  - Deutsche National Bibliothek, DDC: 621.564., Frankfurt, Leipzig, Germany, **2014**.  
<https://portal.dnb.de/opac.htm?method=simpleSearch&cqlMode=true&query=idn%3D1065074107>
  - Technische Universitätsbibliothek Hannover, Diss., VIII, Hannover, Germany, **2014**.  
<http://www.gbv.de/dms/tib-ub-hannover/80293255x.pdf>
- 2- Momin E. Abdalla, H. Pechmann, Jannis M. Ebhardt, S. Kabelac: *Density of the Refrigerant Mixture of R365mfc and R152a: Measurement and Prediction*; Scottish Journal of Arts, Social Sciences and Scientific Studies SJASS, Volume 26, ISSN: 2047-1278, **2015**.
- 3- Momin E. Abdalla, H. Pechmann, Jannis M. Ebhardt, S. Kabelac: *Method of Measuring the Vapor Pressure and Concentration of Fluids using VLE and Vibrating Tube Densitometer Apparatuses*; Scottish Journal of Arts, Social Sciences and Scientific Studies SJASS, Volume 26, ISSN: 2047-1278, **2015**.
- 4- Momin E. Abdalla: *Excess Gibbs Energy and Saturation Pressure of the Environmentally Friendly Refrigerant Mixture : R365mfc and R152a*, IJRASET, Volume 3 Issue I, ISSN: 2321-9653, **2015**.
- 5- Momin E. Abdalla: *Exergy Performance of the Environmentally Friendly Refrigerant Mixture: R365mfc and R152a*, IJRASET, Volume 3 Issue I, ISSN: 2321-9653, **2015**.
- 6- Momin E. Abdalla: *Saturated Virial Coefficient of the Environmentally Friendly Refrigerant Fluids : R365mfc and R152a*, IJRASET, Volume 3 Issue I, ISSN: 2321-9653, **2015**.

## Conferences

- **Momin E. Abdalla**, Jannis M. Ebhardt, S. Kabelac: Dichtemessanlage nach dem Biegeschwingerprinzip und Rezirkulation Phasengleichgewicht Apparatur. Conference of the Deutscher Kälte- und Klimatechnischer Verein

(DKV - German Society for Refrigeration and Air Conditioning) from 20-22 November 2013 in Hannover, Germany.

- **Momin E. Abdalla**, Siddharth Pannir: Density of the Refrigerant Fluids of R365mfc and R152a: Measurement and Prediction. **16<sup>th</sup> International Refrigeration and Air Conditioning Conference at Purdue, July 11-14, 2016, USA.**
- **Momin E. Abdalla**, Siddharth Pannir: Method of Measuring the Vapor Pressure and Concentration of Fluids Using VLE and Vibrating Tube Densitometer Apparatuses. **16<sup>th</sup> International Refrigeration and Air Conditioning Conference at Purdue, July 11-14, 2016, USA.**

## **Reports**

- **Momin E. Abdalla**, Alwaseela S., Kamal Nasr A., Abdalla Khogali A., Kamal Eltayeb Y.: Techno- economic Feasibility Study for the Development of the Faculty of Engineering, University of Khartoum, Study prepared for Islamic Development Bank, **2008**, Sudan.
- **Momin E. Abdalla**: Africa in the Global Research Landscape & Prospective Cooperation with Germany 'Sudan as case study'; report submitted to DAAD Referat 413, Bonn, **November 2011**, Germany.

## **Certification**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: July , **2016**