Rabya Aslam, PhD

Assistant Professor
Institute of Chemical Engineering and Technology
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Experience

Assistant Professor (25th Mar 2016 to date)

Institute of Chemical Engineering and Technology
University of the Punjab, Lahore.

PhD Scholar (Mar 2013 to Mar 2016)
Institute of Separation Science and technology,
University of Erlangen-Nuremberg, Germany.

Lecturer (Sep 2009 to Mar 2016)

Institute of Chemical Engineering and Technology
University of the Punjab, Lahore.
On study leave: Jan 2013 to Mar-2016

Education

PhD Chemical Engineering (Mar 2016)
Institute of Separation Science and technology,
University of Erlangen-Nuremberg, Germany.

MSc (Engg.) Chemical Engineering (Gold Medal, Nov 2012)
Institute of Chemical Engineering and Technology
University of the Punjab, Lahore.

BSc (Engg.) Chemical Engineering (Gold Medal, Jul 2009)
Institute of Chemical Engineering and Technology
University of the Punjab, Lahore.

Publications

Books Published

1. Usman, M.R.; **Aslam, R.**; Saleem, M. **2013**. Chemical Engineering Terminology. Lulu Publishing.

Journal Publications

1. **R. Aslam**, K. Müller, W. Arlt. Measurements and correlations of density, viscosity, refractive index and boiling pressures for dibenzyltoluene derivatives. Journal of Chemical Thermodynamics, 2017, **submitted**.

2. K. Müller, **R. Aslam**, W. Arlt. Experimental Assessment of degree of hydrogenation for LOHC systems. International Journal of Hydrogen Energy, 2016, **accepted**.

3. **Aslam, R.;** Usman, M.R.; Irfan, M.F. Comparative Study of LHHW and ER Kinetic Models for NO Oxidation over Co3O4 Catalyst. Journal of Environmental Chemical Engineering, 2016.

4. G. Do, P. Preuster, **R. Aslam**, A. Bösmann, K. Müller, W. Arlt, P. Wasserscheid. Hydrogenation of the Liquid Organic Hydrogen Carrier Compound Dibenzyltoluene -Reaction Pathway Determination by 1H-NMR Spectroscopy, Reaction Chemistry & Engineering, 2016.

5. **Rabya Aslam**, Mirjana Minceva, Karsten Müller, Wolfgang Arlt. Development of a liquid chromatographic method for the separation of a liquid organic hydrogen carrier mixture, Separation and Purification Technology, 2016.

6. **Rabya Aslam**, Karsten Müller, Michael Müller, Marcus Koch, Peter Wasserscheid, Wolfgang Arlt. Measurement of hydrogen solubility in potential Liquid Organic Hydrogen Carriers, Journal of Chemical Engineering Data, 2016.

7. M. Rashid Usman, Faisal Alotaibi, **Rabya Aslam.** Dehydrogenation–hydrogenation of methylcyclohexane-toluene system on 1.0 wt% Pt/zeolite beta catalyst, Progress in Reaction Kinetics and Mechanism, 2015.

8. J. Cheel, M. Minceva, P. Urajová, **R Aslam**, P. Hrouzek, J. Kopecký. Separation of Aeruginosin-865 from Cultivated Soil Cyanobacterium (Nostoc sp.) by Centrifugal Partition Chromatography combined with Gel Permeation Chromatography, Natural Product Communications, 2015.

9. **Rabya Aslam**, Karsten Müller, Wolfgang Arlt. Experimental Study of Solubility of Water in Liquid Organic Hydrogen Carriers, Journal of Chemical Engineering Data, 2015.

10. **Rabya Aslam**. Separation of Complex Mixture of Liquid Organic Hydrogen Carriers, Chemie Ingenieur Technik, 2015.

11. M. Rashid Usman, **Rabya Aslam**; Dehydrogenation of Methylcyclohexane for On-Board Hydrogen Use: Initial Rate Kinetics over 1.0 wt% Pt/γ-Al2O3, Arabian Journal for Science and Engineering, 2014.

12. Amir Shafeeq, **Rabya Aslam**, Shaukat Ali Shahid, Ayyaz Muhammad, Aamir Ijaz, Arshid Mehmood Ali,Inam ullah,Muhammad Mushtaq, Umer Rashid; Poly(vinyl alcohol): An Economical Substitute to Calcium Lignosulphonate for PVC/PET Separation by Froth Flotation, Asian Journal of Chemistry, 2013.

13. M. Rashid Usman, **Rabya Aslam**, Faisal Alotaibi; Hydrogen Storage in a Recyclable Organic Hydride: Kinetic, Energy Sources A: Recovery, Utilization, and Environmental Effects, 2011.

Conference/ Symposium

1. **Rabya Aslam**; Hydrogen Loading Assessment in Potential Liquid Organic Hydrogen Carriers (LOHCs): A promising solution for energy storage and transportation, 6th symposium on Engineering Science, Lahore Pakistan, 2016.

2. Dureem Munir, Mahmood Saleem, **Rabya Aslam**, M. Rashid Usman; Investigating Hydrocracking of Actual Waste Plastics Mixture using Composite Mesoporous Zeolite Catalysts,

6th symposium on Engineering Science, Lahore Pakistan, 2016.

3. **Rabya Aslam**; Separation of isomeric mixture of dibenzyltoluene, a potential LOHC, 66th Canadian Chemical Engineering Conference, Accepted for oral presentation, 2016

4. **Rabya Aslam**, Karsten Müller, Wolfgang Arlt; Separation of complex mixture of a potential LOHC, AIChE, Salt Lake City, USA, Oral presentation, 2015.

5. **Rabya Aslam**, Karsten Müller Wolfgang Arlt; Separation of isomers of a LOHC, ECCE 10, Nice, France, Oral presentation, 2015.

6. **Rabya Aslam**, Wolfgang Arlt; Separation of complex partially hydrogenated mixture of potential liquid organic hydrogen carrier using HPLC, ProcessNet Annual meeting, Bamberg, Germany, Oral presentation, 2015.

7. **Rabya Aslam**, Karsten Müller, Wolfgang Arlt; Separation of partially hydrogenated LOHC mixtures, ProcessNet Jahrestreffen der Fachgruppen Fluidverfahrenstechnik und Membrantechnik, Bremen, Germany, Poster Presentation, 2015.

8. **Rabya Aslam**, Wolfgang Arlt; Solubility of water and hydrogen gas in potential LOHCs, Bavarian hydrogen centre symposium, Germany, Poster presentation, 2015.

9. **Rabya Aslam**, Wolfgang Arlt; Separation of complex LOHC via high pressure liquid chromatography, Bavarian hydrogen centre symposium, Germany, Poster presentation, 2014.

10. **Rabya Aslam**, M.R. Usman, M.F. Irfan; Kinetic modelling of NO oxidation over cobalt catalyst, ICES-2012, Pakistan, Oral presentation, 2012.

Awards and Achievements

"Sehr gut(very good)" remark in PhD (highest possible grade in German education system)
Gold medal in MSc Chemical Engineering
Gold medal in BSc Chemical Engineering
Merit scholarship in 1st, 2nd, 3rd, and 4th professionals of BSc Chemical Engineering
Throughout first division in the academic career
Selected as a Member of Academic Delegation from University of the Punjab to Beijing University of Chemical Technology & Beijing University of Science & Technology, China

Major Teaching Activities

Advanced Process Dynamics and Control (Post graduate level)
Principles of Biochemical Engineering (Undergraduate level)
Process Dynamics and Control (Undergraduate level)
Instrumentation and Process Control (Undergraduate level)
Engineering Materials (Undergraduate level)
Unit Process (Undergraduate level)
Particulate Solids Technology (undergraduate level)
Principles of Biochemical Engineering (undergraduate level)

Laboratory Teaching

Separation Processes
Fuel Engineering
Instrumentation and Process Control

Professional Affiliations

Member, Pakistan Engineering Council
Member, AIChE, USA.

References

Prof. Dr. Wolfgang Arlt
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