



Curriculum Vitae

1- Personal information

Name : Ali Raad Mohammed Jawad Al-Shathr
Affiliation (Included Phone and Email) : University of Technology / Chemical Engineering Department (009647801760630 / 009647732284140) (80018@uotechnology.edu.iq - aliolimpic@yahoo.com - alialshathr@yahoo.com - alialshathr@gmail.com)
Date of Birth : 15-9-1981
Place of Birth : Baghdad
Nationality : Iraq
Marital Status : Married with two children

Naturally enthusiastic, optimistic, cooperative, reliable and hardworking individual currently located at Baghdad, Iraq. Quick learner and able to communicate efficiently with all ages. Capable of working within a team or using own initiative when alone or unsupervised, to high standards meeting tight deadlines. Adaptable and positive approach to work, as well as excellent interpersonal skills, makes for a potential valuable member of any organization.

2- Scientific Rank

Lecturer

3- Research interests

- Reactor Design
- Catalyst and Catalysis
- Hydrodynamics of Bubble Columns
- Transport Phenomena

4- Educational background

- October 2014 – April 2019: Full-time PhD in Chemical Engineering at the University of Sheffield, UK. My research focuses on both kinetic modelling and experimental studies in order to investigate the role of carbonaceous deposits in relevant reactions systems including isomerization and alkylation with a view to identifying strategies for minimizing

the build-up of harmful deposits while understanding the potential beneficial role of some surface carbon species. Title of postgraduate thesis: Exploiting the role of coke in the catalytic transformations.

- October 2004 – July 2007: I have studied MSc in Chemical Engineering / Unit Operation at the University of Technology, Iraq. Title Master's thesis: 'Hydrodynamics of Bubble Columns Operating in Homogenous Flow Regime using air - diluted solutions of alcoholic system'.
- October 1999 – July 2003: I have studied BSc in Chemical Engineering / Gas & petroleum refinery engineering at the University of Technology, Iraq. Title of graduated project: Production of Vinyl Chloride Monomer.
- September 1996 June 1999: I have completed the high school at Al-Nezamea for boys.

5-Academic experience

- April 2019- until now: I am working as a lecturer at the University of Technology / Chemical Engineering Department. Nowadays, I am teaching Reactor Design for third stage students and Mathematics for first stage students, as well as supervision on projects of fourth stage students.
- September 2007- January 2014: I have worked as lecturer and engineer at the University of Technology / Chemical Engineering Department. At that time, my employment was a co-adviser of control lap, unit operation lap, statistic lap, equipment design lap and computer lap. In all these laboratories I was: responsible for time and project management, collection and analysis of data, search and analysis of relevant related literature and involve in laboratory team work, engaging with other parallel studies. I worked five days per week / thirty-five hours per week. At the same time, I have worked as lecturer (undergraduate level): supervision on projects of fourth stage students, co-adviser of geometrical drawing, and I have given tutorial in Phenomena Transport and Mathematics.

6-Employment History

- September 2003 - November 2004: I have worked as engineer in the Chemical Engineering Department, my work was in the chemical laboratory (repairing, servicing, preparing and testing the experiments and controlled on the electronic and mechanical device). I worked five days per week / thirty-five hours per week.

7-License/Certification

- Iraqi Engineering Union
- Iraqi Society of Nanotechnology

8-Skills and Qualifications

- English Language
- Proficient in Microsoft office applications
- Proficient in Origin software.
- Familiar with GC, XRF, XRD, TPD, TPO, TGA, Nitrogen Adsorption, FTIR and SEM characterisation.

9-Personal skills

- Critical thinking as well as proven capability to confront and solve problems.
- Planning management through time organization and prioritizing tasks.
- Outstanding communicative skills based in determination, initiative, leadership and confidence.
- Good integration into teamwork as well as efficient in individual tasks.
- Responsibility, compromise and enthusiasm with the project.

10- Interests

Soccer, hiking, swimming, music and reading.

11- Publications (Research)

- Gomez, L. Q., Shehab, A. K., **Al-Shathr, A.**, Ingram, W., Konstantinova, M., Cumming, D. and McGregor, J. 2020. H₂-free synthesis of aromatic, cyclic and linear oxygenates from CO₂. *Chemsuschem*.
- **Al-Shathr, A.** 2019. Exploiting the Role of Coke in Catalytic Transformations. Doctor of philosophy, The University of Sheffield.
- **Al-Shathr, A.** and McGregor, J. 2018. Toluene alkylation with 1-heptene: the influence on reaction selectivity of different coke pre-cursors. *25th Canadian Symposium on Catalysis*, Saskatoon, Canada, 167.
- **Al-Shathr, A.** and McGregor, J. 2017. Modified zeolites for catalytic alkylation (poster). *Catalysis and Reaction Engineering Symposium*, University of Sheffield, UK.
- **Al-Shathr, A. R.** and Hummadi, F. A. 2014. Reaction Kinetics of Tert-Butanol Esterification. *Journal of Engineering*, Iraq, 20, 71-87.
- **Al-Shathr, A. R.** 2012. Effect of Solid Properties on Axial Liquid Dispersion in Bubble Column. *Al-Khwarizmi Engineering Journal*, Iraq, 8, 37-47.
- Butrus, K. M., Mohsin, H., A. and **Al-Shathr, A. R.** 2012. Modeling and Control of pH Process for Weak Acid-Weak Base System. *Engineering and Technology Journal*, Iraq, 30, 51-66.
- **Al-Shathr, A. R.** 2011. A Study of Solid Concentration on Homogeneous – Heterogeneous Flow Regime in Bubble Column by Using Foaming Liquid. *First Scientific Conference on Modern Technologies in Oil and Gas Refining*, Chemical Engineering Department-University of Technology, Iraq, 1-16.
- Alwasiti, A. A., Alsudany, F., T. and **Al-Shathr, A. R.** 2010. Effect of Baffles on Homogenous-Heterogeneous Regime in Two Phase Bubble Column with Non-Newtonian Liquid. *Engineering and Technology Journal*, Iraq, 28, 6954-6969.

12- Conferences and training

- 25th Canadian Symposium on Catalysis, Saskatoon, SK, 2018, Canada.
- The First Iraqi Student Conference in Sheffield, 2017, UK.
- Catalysis and Reaction Engineering Symposium in the University of Sheffield, 2017, UK.
- PGR Conference in the University of Sheffield, 2016 and 2017, UK.
- Chemistry: The science around us symposium, in the University of Sheffield, 2016, UK.
- Catalysis day in the University of Sheffield, 2015, UK.
- First Scientific Conference on Modern Technologies in Oil & Gas Refining, 2011, Iraq.
- Training on several types of characterization techniques such as: Gas Chromatography (GC), Scanning Electron Microscope (SEM), Energy Dispersive X-ray Spectrometry (EDS), X-ray Fluorescence Spectrometry (XRF), X-ray Diffraction (XRD), Temperature Programmed Desorption (TPD), Temperature Programmed Oxidation (TPO), Thermogravimetric Analysis (TGA), Nitrogen Adsorption, Liquid Nitrogen training, Fourier-Transform Infrared Spectroscopy (FTIR), Elemental Analysis, Gas cylinder training and IGA (by *Hidden Isochema Company*) at University of Sheffield, UK.
- Several online training courses about health and safety such as: Ionizing Radiation, Lasers, Fire safety, Recycling and waste management at University of Sheffield, UK.
- Designing impact into your research in the University of Sheffield, 2018, UK.
- Faculty of engineering: “Is my work any good? – quality control in a PhD” in the University of Sheffield, 2018, UK.
- Viva survivor workshop in the University of Sheffield, 2018, UK.
- The development of a next generation methyl chloride synthesis catalyst in the University of Sheffield, 2018, UK.
- Sheffield teaching assistance – Small group teaching lab demonstration in the University of Sheffield, 2017, UK.
- Sheffield teaching assistance – Assessment and feedback in the University of Sheffield, 2016, UK.
- Professional Behavior and Ethical Conduct, at the University of Sheffield / Faculty of Engineering Graduate School, 2015, UK.
- Half day academic retreat in the University of Sheffield, 2015, UK.
- Course in lecture methodologies and university training, University of Technology, 2007, Iraq.

13- Reference

Upon your request

Dr. Ali Al-Shathr
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