

Maryam Altaher holds a Master Degree in Chemical Science (polymer synthesis?!) from King Abdullah University of Science and Technology (KAUST) and a Bachelor Degree in Chemical Science with Honor from Dammam University.

Altaher has joined Transport Technologies R&D Division in Sep 2015 as a Lab scientist. She led several technical activities under flagship research initiatives like octane Octane on Demand and Gasoline Compression Ignition (GCI). Before she joined the R&DC, she worked as an intern at EXPEC-ARC. Maryam is an active member in the Saudi Arabian International Chemical Sciences- Chapter of the American Chemical Society. She served as the secretary of the Saudi Arabian Section of the Combustion Institute board of officers. Altaher has a filed patent, presents at technical events and conferences, and makes a special effort to support other women in STEM.

Maryam M Altaher

Lab Scientist I

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PROFILE

Skilled and independent chemist with a background in polymer synthesis and organic chemistry. Experienced in fuel catalytic oxidation, scientific research and experimental design.

EDUCATION

- **King Abdullah University of Science and Technology (KAUST), Thuwal, KSA**
M.S. in *Chemical Science (Polymer Synthesis)*, June, 2015. GPA 3.67/ 4.00

Thesis Topic: *Synthesis and Characterization of Novel Polymethylene-Based 3-Miktoarm Star Copolymers by Combining Polyhomologation with Other Living Polymerizations*

Advisor's Name: Prof. Nikolaos Hadjichristidis

- **Central Washington University (CWU), Ellensburg, WA, USA**
English as a Second Language Program, March, 2011. GPA 4.00/4.00
Advisor's Name: Jenee Cazares

- **Dammam University, Dammam, KSA**
B.S. in *Chemical Science*, July, 2008. *Cumulative GPA 90.78%*
Translating from English to Arabic a scientific text in Surfaces Chemistry
Advisor's Name: Dr. Nuhad Al-Omair

QUALIFICATIONS

- Experienced in fuel catalytic oxidation chemistry and skilled with fuel separation chemistry.
- Highly educated and enthusiastic chemist with significant knowledge in chemistry and polymer synthesis.
- Advanced chemistry courses (advanced organic chemistry, advanced physical chemistry, Polymers and polymerization processes)
- Technical and computer skills (Chemistry software Chem draw, Hyper Chem, MasterNova, and Origin , simulation software HYSYS)
- Activities and communications (officer in the Saudi Arabian Section of the Combustion Institute (SASCI) board of officers, a member in the American Chemical Society (ACS)).

PERSONAL SKILLS

- Read and interpret scientific publications ➤ Master Student at KAUST
- Understand scientific ethics and accountability ➤ Student at KAUST and employee at Aramco
- Problem solving ➤ Thesis research and industrial projects
- Leadership skills ➤ Extracurricular summer programs
- Excellent English and communication skills ➤ Studied and lived in the US
- Time management and work under pressure ➤ Being a mom, student and employee
- Teamwork ➤ Employee at Aramco
- Planning and organizing skills ➤ Leading and participating in projects
- Active, alert and fast learner ➤ Worked at different disciplines
- Presentation skills and networking ➤ Presented in a conference and seminars

PROFESSIONAL EXPERIENCES

- Research and Development Center, Saudi Aramco, Dhahran, Ksa.
Lab Scientist I- September 2015- Present
 - Independent chemist researcher in the field of organic chemistry
 - Experienced in gasoline oxidative reactions and characterizations

- Expert in extracting new ideas from the literature
 - Experimental design skills
 - Technical writing and presentation skills
 - Identify the underlying issues and root causes problem to achieve quality results
 - Great multitasker balancing technical and non-technical work
 - Acquire support and information to carry out work productively
- EXPEC- ARC, Saudi Aramco, Dhahran, Ksa.
Summer Internship- June-July 2014
Research Topic: *Studying the Effect of Brines Concentration on the Viscosity of Linear Gel and Fracturing Fluid*
 - Comprehended the basic knowledge of linear gel and fracturing fluid
 - Interpreted experimental observations, analyzed problems, and drew conclusions
 - Got experienced in working with Fann V-G METER Model 35 viscometer
 - Met project deadline and worked under pressure
 - Practiced scientific research and report writing skills
 - Communicated with unit supervisor and colleagues smoothly
 - Attended department presentations
 - GULF UNION COOPERATIVE INSURANCE COMPANY, DAMMAM, KSA.
MEDICAL INSURANCE DEPARTMENT
Call Center Officer- March- May 2013
 - Enhanced customer relationships by handling and resolving issues related to the medical department in a timely manner
 - Developed record keeping system that resulted in 30% improved accuracy rate with easier access to data
 - Performed comparative analysis of operating customer's complaints in Excel to establish variances in line items
 - Created daily report of received calls from customers for higher management to track progress and stay abreast of all critical issues

VOLUNTEER EXPERIENCE

- FAMILY YOUTH SUMMER PROGRAM, DAMMAM, KSA.
Program Leader- Summer 2007
 - Established a female youth summer program to teach the basics in handcrafts, crochet and painting
 - Assisted and supervised the instructors to create the program content
 - Grouped students based on age (elementary, middle, and high school)
 - Guaranteed the quality of delivered materials and provided meals with limited budget
 - Achieved purpose by presenting useful programs that satisfied the learners
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PUBLICATIONS

- Zhen Zhang, Maryam Altaher, Hefeng Zhang, De Wang, and Nikolaos Hadjichristidis "Synthesis of well-Defined Polyethylene- Based 3-Miktoarm Star Copolymers and Terpolymers" *Macromolecules*, **2016**, **49** (7), pp 2630-2638.

CONFERENCES AND PRESENTATIONS

- ChemIndix 2016. Manama, Kingdom of Bahrain. November 21-23 2016. (Delegate)
- **Maryam Altaher**, Abdullah Alaramadan, Nehal Bokhumseen. "High Octane Gasoline Components Using Triethylene Glycol for Onboard Separation". Sixth Saudi Arabian Section of the Combustion Institute Annual Meeting. Saudi Aramco, Dhahran, KSA. May 1-2, 2016 (Speaker)
- **Maryam Altaher**, Mohammed Al-Mansour, Abdulkarim Samah. "Economic Analysis of High-Octane Fuel Implementations". Seventh Saudi Arabian Section of the Combustion Institute Annual Meeting. King Abdullah University of Science and Technology (KAUST), Thuwal, KSA. May 1-2, 2017 (Speaker)
- **Maryam Altaher**, Christos Kalamaras. "Selective Aerobic Oxidation of Hydrocarbons Using NHPI Based Catalyst for Cetane Number Enhancement". Eighth Saudi Arabian Section of the Combustion Institute Annual Meeting. King Abdullah Petroleum Studies and Research Center (KAPSARC), Riyadh, Saudi

Arabia. May 1-2, 2018 (Speaker)

- **Maryam Altaher**, Christos Kalamaras. “Selective Aerobic Oxidation of Hydrocarbons Using NHPI Based Catalyst for Cetane Number Enhancement”. Ninth Saudi Arabian Section of the Combustion Institute Annual Meeting. King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia. April 29-30, 2019 (Speaker)
- **Maryam Altaher**, Christos Kalamaras, Fatimah Alomar, Mohammed Qahtani “Selective Aerobic Oxidation of Hydrocarbons Using NHPI Catalyst for Cetane Number Enhancement”. American Chemical Society Fall Conference. Virtual, August 22-26 2021 (Speaker)

INTERESTS AND HOBBIES

- Lecturing and presenting educational and cultural programs
- Quality time with family
- Sports in general especially biking, skating and yoga
- Gardening and knitting

LANGUAGES

- Arabic: Native language
- English: Advanced

REFERENCES

- Available upon request