

## Zaid M Abbas

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### Summary

Zaid Mohammed Abbas originally from a small city (Suwayrah) in the middle of Iraq. I studied my Bachelor and M.S. degree in organic chemistry at AL-Nahrain University, Baghdad, Iraq. Then, between 2009 -2012, I had worked as a Teaching Assistant at the University of Wasit. During this period 2010 -2012, I had worked with Dr. Khalidah S. Merzah group to prepare some nanoparticles. I am a very social person, and I am trying to work collectively to reach my goal of making science the forefront of all countries' interests through intercultural convergence and the transfer of evolution around the world. I joined Dr. Brian Benicewicz's group in 2014-2018 to work on research in polymer chemistry, with a focus on RAFT polymerization and polymer nanocomposites. 2019 Back to work at Wasit University as a university instructor and provide quality consultation for some of the Iraqi private companies for better environment.

### Education

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**PhD. in chemistry (organic polymer chemistry)**

University of South Carolina

Advisor: Dr. Brian Benicewicz

**Dec2018**

Columbia, SC

**M.Sc. in Chemistry (organic polymer chemistry)**

Al-Nahrain University

Advisor: Dr. Ayad Jassim

Iraqi Chemical Society Certification

**May 2008**

Baghdad, Iraq

**Bachelor of chemistry**

Al-Nahrain University

Iraqi Chemical Society Certification

**June 2005**

Baghdad, Iraq

## Affiliations

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- Iraqi Chemical Society member.
  - American Chemical society member.
  - ACS Poly/PMSE student member at University of South Carolina.
  - American Chemical society member/Rubber Division.
  - Iraqi Club at University of South Carolina member.
  - International Biological and Chemical Threat Reduction trainee.
  - Baghdad Chamber of Commerce Consultant.
  - Eblal Group PR Manager.
  - CEO of Damu SB
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## Academic Experience

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### Instructor and Research Assistant (Jan 2009-Present)

#### University of Wasit

Wasit, Iraq

- Tests designing and grading
- Laboratory teaching (organic, instrumental analysis, general chem.)  
Tteaching (organic chemistry, general chemistry, natural product. Polymers, nanochemistry)
- experience of total synthesis organic chemistries and molecules modification.
- Nanoparticle's synthesis and modification.

### Chemistry Chair Assistant (2010-2012) Wasit University, Wasit, Iraq

- Work on classes and lab organizing.
- Organize the lesson schedule for Chemistry Dept.

### Research Assistant (January 2014-2019)

- Organic synthesis chemistries and molecules modification of polymer chemistry.
- Investigation nanoparticles dispersion in different matrices like polypropylene and polyethylene.
- Inorganic surface modifications.
- Raft polymerization for wide range of monomers.
- Anionic and cationic polymerization.
- Investigation raft polymerization of Diene monomers.
- Surface characterization of inorganic surfaces.

### Research Skills (January 2014-present)

- Trans and Scan electron microscopy.
- Gel Permeation Chromatography.
- Gravimetric analysis techniques.
- Dynamic mechanical analysis.
- Nuclear magnetic resonance spectroscopy.
- Cryotome sectioning.
- Rubber curing.
- Safety and security in chemical lab designs.

## Teaching Assistant (Aug 2016- 2019)

University of South Carolina

Columbia SC, USA

- Med-term, quiz and final tests grading
- Laboratory teaching (organic, instrumental analysis, general chem.)
- Courses teaching (organic chemistry, general chemistry, natural product.)

## Industry Experience

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- Chemistry Chair Assistant Wasit University (2009-2012).
- Logistic in Chinese construction company of the Wasit thermal station (2009)
- Logistic in Chinese construction company of Essaouira sewer network (2012)
- Working on the development of rubbery nanocomposites with Michelin Tires (2014-2018)
- Research Assistant in University of South Carolina (2013-2019)
- Working on the development of polymers with Sealed Air (2014-2015)
- Work on the developing of Gas separation polymer films in with Columbia University in New York (2015- 2019)
- Work on the development of dielectric properties polymers with the RPI New York Institute (2014-2017)
- International Biological and Chemical Threat Reduction trainee with Sandia National Laboratory and Pacific Northwest National Laboratory (2017-present)
- Working on studies on structural behavior of nanoparticles in the organic medium (2019-present)
- Quality and compliance Consultant in Eblal Group (Leading Regulatory Affairs team) (2019-Present)
- Educational trainer in several educational centers in Iraq (2019-present)
- Baghdad Chamber of Commerce Consultant (2020-present)

## Publications

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On the google scholar under this profile:

- <https://scholar.google.com/citations?user=pgKNsbYAAAAJ&hl=en>
- <https://orcid.org/0000-0003-3620-3865>
- Scopus Author ID: 57190949808.

## Talks and Posters

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<b>Cultural Colors</b>	TEDxYouth@ColumbiaSC	March 5, 2016 Columbia, SC
<b>Convergence of cultures</b>	First Arabic Cultural Forum	April 2016 Columbia, SC
<b>Polychloroprene grafted silica nanoparticles for polymer nanocomposites</b>	ACS SERMACS Southeast Regional Meeting	October 2016 Columbia, SC

<b>Polychloroprene on silica nanoparticles for PCP nanocomposites</b>	Networking Event PMSE Industrial, Dupot visit	Spring 2017 Columbia, SC
<b>SI-RAFT Polymerization of chloroprene on silica nanoparticles for the application in rubber nanocomposites</b>	ACS 253rd National Meeting	April 2017 San Francisco, CA
<b>International Biological and Chemical Threat Reduction</b>	Sandia National Laboratories	Dec 2017 Kansas City, MO
<b>Student Leadership &amp; Diversity Conference</b>	University of South Carolina	February 2018 Columbia, SC
<b>Reinforcement of Industrial Chloroprene Rubber by Polychloroprene Grafted Silica Nanoparticles</b>	ACS 255th National Meeting	March 2018 New Orleans, LA
<b>Hydrogenated Polyisoprene-<i>g</i>-Silica Nanoparticles in Polyolefin Nanocomposite</b>	ACS 255th National Meeting	March 2018 New Orleans, LA
<b>SI-RAFT Polymerization of 2,3-Dimethyl-1,3-butadiene on Silica Nanoparticles for Matrix-free Methyl Rubber Nanocomposites</b>	ACS 253rd National Meeting	August 2018 Boston, MA
<b>Reinforcement of Industrial Rubber by Rubber Grafted Nanoparticles</b>	International Elastomer Conference and 194th Rubber Division ACS Technical Meeting	Oct 2018 Louisville, KY
<b>Advance workshop: International Biological and Chemical Threat Reduction</b>	Sandia National Laboratories	Oct 2018 Chicago, IL
<b>3<sup>rd</sup> International Scientific Conference of Kurdistan Society of Dermatologists</b>	Kurdistan Society of Dermatologists	April 2019 Erbil, Iraq
<b>Advance workshop: Chemical Threat Reduction</b>	Pacific Northwest National Laboratory PNNL	Oct 2019 Antalya, Turkey
<b>Arab Health</b>	Arab Health 2020	Feb 2020 Dubai, UAE
<b>Synthesis of Grafted Polymers from CeO<sub>2</sub> NP's</b>	Women in Science Without Borders (WISWB) in partnership with the University of Duhok	Mar 2021 Duhok, Iraq
<b>Indus Food</b>	Indus Food	Oct, 2021 Delhi, India
<b>Eblal Group Achievements</b>	Baghdad Chamber of Commerce annual meeting	Jan, 2022 Baghdad, Iraq
<b>Gulfood</b>	Gulfood	Feb, 2022 Dubai, UAE

<b>Eblal Group Achievements</b>	Hounsflow Chamber of Commerce annual meeting	Feb, 2022 London, UK
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## Achievements

<b>Gratitude Letters from President of UoWasit</b>	University of Wasit	2011 Wasit, Iraq
<b>Gratitude Letters from Dean of College of Science UoWasit</b>	University of Wasit	2009 – 2011 Wasit, Iraq
<b>Gratitude Document</b>	First Arabic Cultural Forum University of South Carolina	April 2016 Columbia, SC
<b>Best Presentation award</b>	International Elastomer Conference and 194th Rubber Division ACS Technical Meeting	Oct 2018 Louisville, KY
<b>Gratitude Letters from the Minister of Higher Education in Iraq</b>	For being the first researcher from Wasit University to publish in the Nature Index	June, 2021 Baghdad, IQ