

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

PhD. in chemistry (organic polymer chemistry)	Dec2018
University of South Carolina	Columbia, SC
Advisor: Dr. Brian Benicewicz	
M.Sc. in Chemistry (organic polymer chemistry)	May 2008
Al-Nahrain University	Baghdad, Iraq
Advisor: Dr. Ayad Jassim	
Iraqi Chemical Society Certification	
Bachelor of chemistry	June 2005
Al-Nahrain University	Baghdad, Iraq
Iraqi Chemical Society Certification	

Affiliations

- 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

Academic Experience

Instructor and Research Assistant (Jan 2009-Present)

University of Wasit

Wasit, Iraq

- Tests designing and grading
- Laboratory teaching (organic, instrumental analysis, general chem.)
Teaching (organic chemistry, general chemistry, natural product. Polymers, nanotechnology)
- 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

- 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

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

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

Polychloroprene on silica nanoparticles for PCP nanocomposites	Networking Event PMSE Industrial, Dupot visit	Spring 2017 Columbia, SC
SI-RAFT Polymerization of chloroprene on silica nanoparticles for the application in rubber nanocomposites	ACS 253rd National Meeting	April 2017 San Francisco, CA
International Biological and Chemical Threat Reduction	Sandia National Laboratories	Dec 2017 Kansas City, MO
Student Leadership & Diversity Conference	University of South Carolina	February 2018 Columbia, SC
Reinforcement of Industrial Chloroprene Rubber by Polychloroprene Grafted Silica Nanoparticles	ACS 255th National Meeting	March 2018 New Orleans, LA
Hydrogenated Polyisoprene-g-Silica Nanoparticles in Polyolefin Nanocomposite	ACS 255th National Meeting	March 2018 New Orleans, LA
SI-RAFT Polymerization of 2,3-Dimethyl-1,3-butadiene on Silica Nanoparticles for Matrix-free Methyl Rubber Nanocomposites	ACS 253rd National Meeting	August 2018 Boston, MA
Reinforcement of Industrial Rubber by Rubber Grafted Nanoparticles	International Elastomer Conference and 194th Rubber Division ACS Technical Meeting	Oct 2018 Louisville, KY
Advance workshop: International Biological and Chemical Threat Reduction	Sandia National Laboratories	Oct 2018 Chicago, IL
3rd International Scientific Conference of Kurdistan Society of Dermatologists	Kurdistan Society of Dermatologists	April 2019 Erbil, Iraq
Advance workshop: Chemical Threat Reduction	Pacific Northwest National Laboratory PNNL	Oct 2019 Antalya, Turkey
Arab Health	Arab Health 2020	Feb 2020 Dubai, UAE
Synthesis of Grafted Polymers from CeO₂ NP's	Women in Science Without Borders (WISWB) in partnership with the University of Duhok	Mar 2021 Duhok, Iraq
Indus Food	Indus Food	Oct, 2021 Delhi, India
Eblal Group Achievements	Baghdad Chamber of Commerce annual meeting	Jan, 2022 Baghdad, Iraq
Gulfood	Gulfood	Feb, 2022 Dubai, UAE

Eblal Group Achievements	Hounslow Chamber of Commerce annual meeting	Feb, 2022 London, UK
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Achievements

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