

ASMA ABDUL-QADER

RESEARCH ASSISTANT & CHEMICAL ENGINEER

Experienced Research Assistant with a demonstrated history of working in the chemicals industry. Skilled in Matlab, Microsoft Excel, Process Engineering, Materials Science, and Aspen Plus. Strong research professional with a Bachelor of Engineering - BSc focused in Chemical Engineering from Qatar University.

PERSONAL DETAILS

- Date and place of Birth: 20th Sep. 1993 (**Birthplace: Doha - Qatar**)
- Nationality: Sudanese
- Gender: Female
- Marital Status: Single

CONTACT DETAILS



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Asma.alkareem93@gmail.com



ASMA HAMAD



Doha - Qatar

EMPLOYMENT AND TRAINING HISTORY

Research Assistant

Center of Advanced Materials (CAM) – Qatar University

September 2016 - Present

Doha – Qatar

- Ability to actively contribute to the research projects goals
- A proven publication track record and a good standard of written English
- Responsible for writing up research papers and presenting research
- Identifying suitable techniques for the collection and analysis of data
- Assisting in the development & preparation of continuing funding opportunities
- Contributing to team decisions about research directions
- Data coding, data entry, transcribing, data analysis & assistance with writing up
- Producing regular reports for senior management and specialists in different areas
- Provide technical guidance to school students throughout their research Projects and training.

PROFESSIONAL AFFILIATIONS & PUBLICATIONS

- **International Journal Publications:**
 - Mansoor Ani Najeeb, **Asma Alkareem**, Muhammad Awais, Zubair Ahmad, A. Abdulla Alashraf, A. M. A Mohamed, Jolly Bhadra, N.J. Al-Thani, Farid Touati, Saqib Rafique. “**Effect of microwave sintering on the crystal domain and electrical properties of TiO₂ nanoparticles**”. Journal of Nanoparticle Research - Springer Nature, June 2017, DOI 10.1007/s11051-017-3896-5.
 - Jolly Bhadra, Noora Al-Thani, **Asma Abdulkareem**. “**The effect of electro spinning parameters on polystyrene nano fiber morphology: oil-water separation**” Journal of Desalination and Water Treatment, February 2018, doi:10.5004/dwt.2018.22035.
 - Jolly Bhadra, Anton Popelka, **Asma Abdulkareem**, Marian Lehocky, Petr Humpolicek, Noora Al-Thani, “ **Effect of humidity on the electrical properties of the silver-polyaniline/polyvinyl alcohol nanocomposites**” Journal of Sensors and Actuators A: Physical- Elsevier, January 2019, doi.org/10.1016/j.sna.2019.01.012.

- Jolly Bhadra, Anton Popelka, **Asma Abdulkareem**, Zubair Ahmad, Farid Touati, Noora Al-Thani, " **Fabrication of polyaniline-graphene/polystyrene nanocomposites for flexible gas sensors**" Journal of Royal Society of Chemistry, April 2019.
- Anton Popelka, Jolly Bhadra, **Asma Abdulkareem**, Peter Kasak, Zdenko Spitalsky, Se Won Jang, Noora Al-Thani. " **Fabrication of flexible electrically conductive polymer-based micropatterns using plasma discharge**" Journal of Sensors and Actuators A: Physical, Elsevier, January 2020.
- Jolly Bhadra, **Asma Alkareem**, Noora Al-Thani. " **A review of advances in the preparation and application of polyaniline based thermoset blends and composites**" Journal of Polymer Research, Springer, April 2020.
- Anton Popelka, **Asma Abdulkareem**, Abdelrahman A Mahmoud, Mohammed G Nassr, Mahmoud Khatib AA Al-Ruweidi, Khalid J Mohamoud, Mohammed K Hussein, Marian Lehocky, Daniela Vesela, Petr Humpolíček, Peter Kasak, " **Antimicrobial modification of PLA scaffolds with ascorbic and fumaric acids via plasma treatment**" Journal Surface and Coatings Technology, April 2020.
- Patrik Sobolčiak, **Asma Abdulgader**, Miroslav Mrlik, Anton Popelka, Ahmed A Abdala, Abdelnasser A Aboukhlewa, Mustapha Karkri, Hendrik Kieper, Hans-Jörg Bart, Igor Krupa, " **Thermally Conductive Polyethylene/Expanded Graphite Composites as Heat Transfer Surface: Mechanical, Thermo-Physical and Surface Behavior**" Journal Polymers, Multidisciplinary Digital Publishing Institute, November 2020.

▪ Conference Publications:

- J. Bhadra, A. Popelka, N. J. Al-Thani, **A. Abdulkareem** "Study of polyaniline-silver nanocomposite as humidity sensor." Qatar Foundation Annual Research Conference Proceedings 2018.
- **Asma Abdulkareem**, Abdelrahman Mahmoud, Mohammed Naser, Mahmoud Abdelrasool, Khalid Jama, Mohamed Hussein, Peter Kasak, Anton Popelka. " Development of PLA Fibers as an Antimicrobial Agent with enhanced infection resistance using electrospinning/plasma technology" Qatar university annual research forum 2020. Published in Qatar University Press
- Anton Popelka, Salma Habib, Aya Abusrafa, Fathima Sifani Zavahir, **Asma Abdulkareem**, Preparation of slippery liquid infused porous surfaces on polymeric substrates. Qatar university annual research forum 2020. Published in Qatar University Press.
- **Asma Abdul-kareem**, Noura AlSanari, Amal Daifallah, Radwa Mohamed, Jolly Bhadra, Deepalekshmi Ponnamma, Noora Al-Thani. "Piezoelectric Nanogenerators Based On Pvdh-Hfp/Zno Mesoporous Silica Nanocomposites For Self-Powering Devices" Qatar university annual research forum 2020. Published in Qatar University Press

▪ Book Chapters:

- Jolly Bhadra, Noora Al-Thani, **Asma Abdulkareem**, " **Recycling of polymer-polymer composites, Micro and Nanofibrillar Composites from Polymer Blends**", Elsevier publisher, chapter 11, 263-273.
- Jolly Bhadra, **Asma Abdulkareem**, Noora Al-Thani, " **The Nanotechnology in decontamination**", Composite Nanoadsorbents, Elsevier publisher, chapter 5.

Peer Advisor

Engineering Academic Advising Office (CENG-AAO), Qatar University

Feb 2015 –Jun 2016

Doha – Qatar

- Peer advisor for engineering student.
- Administrative Assistant and Coordinator tasks
- Training and Leading volunteers and student employees for events
- Editing important and official office documents
- Provide support and advisory services to undergraduate to assist them achieving their goals

Trainee Chemical Engineer

Qatar Fertilizer Company (QAFCO) – Mesaieed Industrial City Branch

Jun 2015 — Aug 2015

Doha – Qatar

- Had an overview about the operations taking place at the company and the function analysis of

- major equipment used in the plant.
- Understood how engineering principles are used to develop technologies, methodologies and services that address the needs of this sector
- Learnt how to read process flow diagrams (PFD) for Ammonia plants, as well as understanding the piping systems, connections with other systems, bypasses and recirculation streams.
- Made a complete Mass balance for Ammonia-4 Plant and Heat balance on E0401-BFW preheater of CO conversion section.
- Prepared a comprehensive report about the company's profile, operations and technical tasks assigned

Secretary and Event Coordinator

The American institute of chemical Engineers student chapter (AIChE SC) at Qatar University

Sep 2015 – Jun 2016

Doha – Qatar

- Planning and assisting chapter's events

Student Services Employee

Student Services Department - Textbooks Section at Qatar University

Sep 2015 – Jun 2016

Doha – Qatar

- Managing Lost and Found Service, and establishing regulations and procedures related to the service
- Maintaining the confidentiality of student data in the service records
- Helping student and staff to find their lost items

EDUCATIONAL BACKGROUND AND CERTIFICATIONS

2020 Bachelor of Science in Materials Science & Technology (**GPA : 3.88**)
University of Qatar

Thesis : “ Designing of Polyethylene-based materials modified by plasma discharge for water/oil separation”

2016 Bachelor of Science in Chemical Engineering (**Grade: Very Good**)
University of Qatar (ABET Accredited)

Senior project: “ Design of a World Class Methanol Process Plant”

INTERESTS



Research



Software Development



Sports & Fitness



Reading



Arts



Photography

LANGUAGES

	Read	Write	Speak
Arabic	Native	Native	Native
English	Excellent	Excellent	Excellent

MEMBERSHIP & VOLUNTEERING EXPERIENCE

- **VOLUNTEERING**
 - **Qatar University**
 - New student's orientation 2012-2013
 - Alumni Reunion 2013

- The 8th sponsorship and internship career forum
- The Engineering week 2014
- ALChE in the International Symposium on Advances in Chemical Engineering 2014
- The entrepreneurship in economic development 2014
- The MENA Universities Summit as an organizer
- **MEMBERSHIPS**
 - **Qatar University**
 - Member of engineering club at Qatar University
 - Member of QUSPE student chapter at Qatar University
 - Member of the American Institute of Chemical Engineers student chapter (ChE SC), Qatar University
 - Member of Time Bank at Qatar University
 - Member of Shell Ideas 360°

TRAINING COURSES & WORKSHOPS

- **TRAINING COURSES**
 - Basic Life Support (BLS)/ First Aid Course (CDR, AED & First Aid) Mar 2012, Hamed International Training Center
 - Summer Internship program in Qatar Fertilizer Company (QAFCO) from June 23- August 13, 2015
 - Computer Methods in Chemical Engineering course from 16th Sep 2015 – 15th Dec 2015, Qatar University
 - GE Oil and Gas Rotating Machinery Familiarization training course in November 20th – 21st 2015, Qatar Science and Technology park (QATP).
 - IPTC International Education Summit 2015 from 5-9 December 2015, at the Qatar National Convention Center (QNCC).
 - Online education diploma in Career Advancement from SHAW academy at 28th of July 2016.
- **WORKSHOPS**
 - Communication skills workshop Nov 2011, Qatar University.
 - Learning outcome workshop Nov 2011, Qatar University
 - Be the change workshop Feb 2012, Qatar University
 - Career Excellence Workshop 2013, Qatar University
 - Introduction to HYSYS workshop 2014, Qatar University.
 - Guidelines for Effective CV Writing and Interview Skills Apr 2015, Qatar University.
 - Petroleum Organic Geochemistry for Beginners April 2015, TAMUQ campus.
 - The 9th International Petroleum Technology Conference & Exhibition Dec 2015, the QNCC
 - Managing References using Endnote Software Oct 2017, The Office of Facility and I instructional Development (OFID) Qatar University.
 - Cite as you Write: Using Zotero for Writing Research Nov 2017, The Office of Facility and I instructional Development (OFID) Qatar University.

KEY PERSONAL SKILLS

- Excellent research skills.
 - Ability to finish own work in response to deadlines.
 - Able to plan research and organize tasks effectively
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- Self-motivated and fast learner
- Excellent time management and organizational skills
- Ability to resolve problems independently
- Experience in carrying out experimental research.
- Knowledge of maintaining safe workplace practice and procedures in accordance with the requirements of Health and Safety legislation

COMPUTER SKILLS

Microsoft (Word – Excel – PowerPoint – Outlook - VISIO)	★	★	★	★	★
MATLAB/SIMULINK	★	★	★	★	★
ASPEN PLUS	★	★	★	★	★
HYSIS	★	★	★	☆	☆
HTRI	★	★	★	★	★

REFERENCES

Reference will be available upon request