

# CV

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## Abdelrahman Adel Mahmoud

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Date of Birth: July 26, 1995

Marital Status: Single

### EDUCATION/STUDIES

- Qatar University
- **Bachelor of Science in Chemistry**, Fall 2014 – Spring 2019
- **Thesis (Research Project) title:** Synthesis and Characterization of Aspirin and Indomethacin Prodrugs.
- **Graduate Certificate in Corrosion**, Spring 2020 – Fall 2020
- **High school:** Musab bin omair independent school
- **Preparatory school:** Hamza bin Abdul Muttalib independent school
- **Elementary school:** Khalifa Model School

### LANGUAGE SKILLS

Arabic: Native

English: Very good

## EXPERIENCE AND SKILLS

### Research Assistant at Qatar University for 2 years.

- ❖ Project Title: Development of Medical Scaffolds with Enhanced Infection Resistance using Electrospinning/Plasma Technology. UREP22-076-1-011
- ❖ Project Title: Polyethylene-based filtration media for a separation of oily impurities from produced water. QUCG-CAM-20/21-3.
- ❖ Characterized products with <sup>1</sup>H-NMR, <sup>13</sup>C-NMR, IR spectroscopy, optical profilometry and scanning electron microscope.
- ❖ Capable to run and analyze the optical contact angle measuring system OCA35.
- ❖ capable to use RF plasma equipment Venus 75-HF
- ❖ Electrospinning nanofabrication, surface modification. Chemical morphology analysis and chemical composition analysis.
- ❖ Eligible to use Brabender instrument as an internal mixer for polymers.
- ❖ Able to utilize universal testing machine (UTM) to test tensile strength and compressive strength of materials.
- ❖ Conduct qualitative and quantitative analysis.

## PUBLICATIONS

1. Radwan, A. B., Ahmed, S. E., Kahraman, R., Montemor, F. M., Ali, K., Mahmoud, A. A., & Shakoor, R. A. (2018, July). Novel Ni-B/AlN Nanocomposite Coatings for Oil and Gas Industry. In CORROSION 2018. NACE International.
2. Popelka, A., Abdulkareem, A., Mahmoud, A. A., Nassr, M. G., Al-Ruweidi, M. K. A., Mohamoud, K. J., ... & Kasak, P. (2020). Antimicrobial modification of PLA scaffolds with ascorbic and fumaric acids via plasma treatment. *Surface and Coatings Technology*, 400, 126216.

## CONFERENCE PRESENTATION

1. Abdelrahman A. Mahmoud, Hani D. Tabba: "Synthesis and Characterization of Aspirin and Indomethacin Prodrugs." Submitted and presented in the American Chemical Society 254<sup>th</sup> National Conference in Boston 2018.
2. Abdelrahman A. Mahmoud, Mahmoud K. Abdelrasool: "ACS Qatar University Chapter: Update on The Approach of Qatar University's Chapter to Empower Young Chemists and Reach Out to The Community." Submitted and presented in the American Chemical Society 254<sup>th</sup> National Conference in Boston 2018.

## CERTIFIED COURSES

- ❖ Training course on Chemical Analysis Instrumentations and Techniques, by Central Lab. Unit at Qatar University.
- ❖ Safety Officer Course.
- ❖ IOSH Managing Safety.

## VOLUNTEERING ACTIVITIES

- ❖ Organizing the Emir Cup 2014 – 2019.
- ❖ Organizing the Super Coppa Italia in Qatar 2014 and 2016.
- ❖ Active Volunteer in The Youth Company (2013).
- ❖ Treasurer at The American Chemical Society Student Chapter in Qatar University (QUACS) 2017 – 2019.