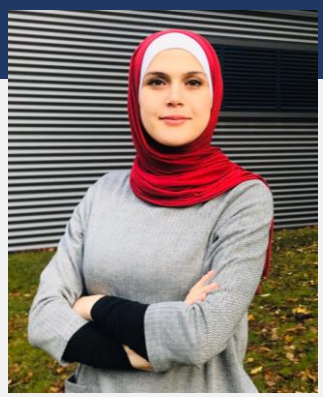
# Curriculum Vitae



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## Academic Experience

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|---|---|
| 10/2021- Currently | **Jordan University of Science and Technology**<br>**Nanotechnology institute**<br>Assistant professor |
| 2/2021- 10/2021 | **Hashemite University**<br>**Faculty of Pharmacy**<br>Assistant professor |
| 10/2020- 2/2021 | **Jadara University**<br>**Faculty of Pharmacy**<br>Assistant professor |
| 10/2020- 2/2021 | **Jordan University of Science and Technology**<br>Assistant professor- Part time |
| 03/2016- 06/2020 | **Hamburg University of Technology (TUHH) and University of Hamburg**<br>Research Associate<br>*Key results*<br>• Developed a pulmonary drug carrier of alginate and hybrid alginate-hyaluronic acid by the aerogel technology.<br>• Optimization of the pulmonary drug carrier using the emulsion gelation technique.<br>• Assessment of the gelation point by a rheological characterization (elastic and the viscous modulus).<br>• Assessment of the physicochemical and aerodynamic properties of the alginate and hybrid alginate-hyaluronic acid pulmonary drug carrier. |
| 9/2014- 6/2015 | **Lecturer at Jordan University of Science and Technology**<br>Teaching practical courses in the pharmaceutical microbiology and quality control |

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## Academic Qualifications

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|---|---|
| 03/2016- 06/2020 | **University of Hamburg**<br>Doctoral studies in pharmaceutical technology |
| 09/2011-04/2014 | **Jordan University of Science and Technology**<br>Master of Science in pharmaceutical technology<br>Optimization of a transdermal patches of levodopa and β-cyclodextrin<br>Investigation the in vitro drug release from the transdermal patches using excised rat skin mounted in the franz diffusion cell |
| 09/2003-02/2008 | **Jordan University of Science and Technology**<br>Bachelor in pharmacy |

## Publications

1. Enhancement of levodopa stability when complexed with β-cyclodextrin in transdermal patches Pharmaceutical Development and Technology (2016)
2. Alginate and hybrid alginate-hyaluronic acid aerogel microspheres as potential carrier for pulmonary drug delivery (2019).
3. Mechanically Strong Polyurea/Polyurethane-Cross-Linked Alginate Aerogels(2020)
4. Polyurea-crosslinked biopolymer aerogel beads (2020)
5. Pulmonary drug delivery with aerogels: Engineering of alginate and alginate-hyaluronic acid microspheres (2021)
6. Evaluation of the orally administered calcium alginate aerogel on the shift of gut microbiota and toxicity of Wistar rats (2021)
7. Enhanced synergic effect of the antibacterial activity and hydrophobicity of polydimethylsiloxane polymer loaded with titanium dioxide nanoparticles and ciprofloxacin (2022)
8. Nanoliposomes as Drug Delivery Systems for Antifungal Therapy (2022)
9. In vivo tests of a novel wound dressing based on agar aerogel (2023)
10. Enhanced response and selective gold nanoparticles/carbon nanotubes biosensor for the early detection of $HER_2$ biomarker (2023)

## Conference

- Hyaluronic acid-alginate aerogel as potential drug carrier. The fourth international seminar on aerogels. 2018, Hamburg, Germany
- Preparation and characterization of alginate- hyaluronic acid nanoporous microspheres as potential carrier for pulmonary drug delivery using supercritical fluid technology. (Awarded the Postgraduate Oral Presentation Awards), Applied Science Private University Pharmacy Fourth International Conference,. 2019, Amman, Jordan.
- Preparation and characterization of alginate- hyaluronic acid nanoporous microspheres as potential carrier for pulmonary drug delivery using supercritical fluid technology. Jahrestreffen der ProcessNet-Fachgruppen Adsorption und Hochdruckverfahrenstechnik. 2019, Freiberg, Germany
- Pulmonary drug delivery with aerogels: Engineering of alginate and alginate-hyaluronic acid microspheres**. (Awarded the first prize for the best oral presentation in early career investigator forum),** the International Conference on Aerogels for Biomedical and Environmental Applications. 2020, Santiago de Compostela, Spain.
- Alginate and Hyaluronic Acid Aerogels as Novel Materials for Wound Dressing applications **(Awarded the first communication prize for the session: wound material-based dressing and aerogels processing. In the "Symposium on aerogel for biomedical applications")**, 2021, Porto, Portugal.

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## Experience

09/2009-02/2010 — **Jordan Health Aid Society**
Pharmacist

05/2015-01/2016 — **International Medical Corps (IMC)**
Mental health case manager

## Languages

- Arabic, Native speaker
- English, Full professional proficiency
- German, Intermediate, B1 level