

CURRICULUM VITAE

Omar Alaa Numan Alnasra

PERSONAL DATA:

Email: o.alnasra@jpu.edu.jo
Phone number: 00962-799413977
Place and date of birth: Amman, Jordan on 13/08/1985.
Nationality: Jordanian
Marital status: Married
Address: Tla'a Al-Ali,
Amman, Jordan.



EDUCATION:

2017 – 2023: Ph.D. in Chemistry:
Department of Chemistry,
Faculty of Science,
The University of Jordan,
Amman, Jordan.

Thesis title: "Preparation, characterization, and Investigation of nanosilica-cysteine system loaded with arsenic trioxide (SiO₂-Cys/ATO) and applying computational biology tools and machine learning to assess the potential of drug combination for cancer therapy".

Supervisor: Prof. Dr. Fawwaz Khalili.

2010 – 2014: M.Sc. in Chemistry:
Department of Chemistry,
Faculty of Science,
The University of Jordan,
Amman, Jordan.

Thesis title: "Method development, validation and pharmacokinetics for Hydrochlorothiazide and Ramipril in human plasma and bioequivalence study on Jordanian volunteers".

Supervisor: Prof. Dr. Mahmoud Alawi.

2005 – 2009: B.Sc. in Chemistry:
Department of Chemistry,
Faculty of Science, Al-Albayt
University, Al-Mafraq, Jordan.

2002 – 2003: High school (Tawjihi):
Ahmad Toqan School,
Amman, Jordan.

LANGUAGES:

Arabic: Mother tongue.
English: Excellent written, read and spoken.

WORK EXPERINCE:

March 2024 – present: **Assistant Professor**
Jerash University,
Jerash, Jordan.

Oct 2023 – Jan 2024: **Part time Lecturer:**
Isra University,
Amman, Jordan.

Feb 2018 – Jan 2024: **Part time Teaching Assistant:**
The University of Jordan,
Amman, Jordan.

Aug 2012 – June 2024: **Chemistry Teacher:**
Pioneers International Academy,
Amman, Jordan.

May 2012 – Nov 2012: **QA Officer:**
Jordan Centre for Pharmaceutical Research,
Amman, Jordan.

Mar 2009 – May 2012: **Chemical Analyst:**
Jordan Centre for Pharmaceutical Research,
Amman, Jordan.

PROFESSIONAL MEMBERSHIPS:

- American Chemical Society.
- International Society for Computational Biology.
- Jordanian Chemical Society.

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- Jordanian Society for Scientific Research.
 - Jordanian Astronomical Society.
 - Royal society for the Conversation of Nature.

RESEARCH:

Research Interests:

- Development of Nano-sized Drug Delivery Systems.
- Analytical methods for determination of nanosilica composites.
- Silica Nanoparticles and Cysteine Composite Materials.
- Chemical, biochemical and environmental engineering.
- Computational Biology in Drug Discovery.

Research Skills:

- Synthesis of Nanosilica and organic compounds Composites.
- Characterization Techniques: ATR-FTIR, TGA, SEM, TEM, XRD, & UV.
- General analytical and organic chemistry analysis skills.
- Adsorption & Desorption Studies.
- Cell Culture and Cytotoxicity Assays.
- Computational Biology Tools and machine learning.
- Bioanalytical Method Validation.

PUBLICATIONS:

• Published Works:

1. **Alnasra, O.**, Khalili F. & Khabas M., Exploring the adsorptive behavior of U(VI) ions on avocado seed-derived activated carbon: an in-depth kinetic and thermodynamic analysis. Journal of Radioanalytical and Nuclear Chemistry.
2. **Alnasra, O.**, Khalili F., Alhnafat F. (2024) Enhanced removal of Pb(II), Zn(II) and Cd(II) ions by insolubilized humic acid: Characterization and sorption behaviors. Desalination and Water Treatment. 320, 100604. <https://doi.org/10.1016/j.dwt.2024.100604>
3. **Alnasra, O.** & Khalili F. (2023). Synthesis and characterization of nanosilica-cysteine composite for arsenic(III) ion removal. Acta Chimica Slovenica. 70, 674–689. <https://doi.org/10.17344/acsi.2023.8160>
4. **Alnasra, O.**, & Khalili, F. (2023). A Simple, Stable, and Highly Sensitive Spectrophotometric Method for the Determination of Arsenic(III) from Different Biological Media in the Presence of Nanosilica-Cysteine

Composite. Journal of the Turkish Chemical Society Section A: Chemistry, 10(3), 773–786. <https://doi.org/10.18596/jotcsa.1273473>

5. Khalili F., **Alnasra O.**, Al-Sotari S., Sweileh B. (2023). Synthesis and characterization of poly(pentamethelene-2,6-pyridinedicarboxylate) and the study of its ability to absorb Pb(II), Cd(II) and Zn(II) ions. Desalination and Water Treatment. 300, 248-248.
<https://doi.org/10.5004/dwt.2023.29773>
6. Alhaj, A., **Alnasra, O.**, Alawi, M. & Arafat, T. (2015). Method development, validation and pharmacokinetics for ramipril and hydrochlorothiazide in human plasma and application in a bioequivalence study based on healthy Jordanian volunteers; Asian Journal of Biomedical and Pharmaceutical Science, 5(49), 21–27. <https://doi.org/10.15272/ajbps.v5i49.745>

• **Manuscripts, waiting for acceptance:**

1. **Alnasra, O.**, Khalili F. & Hebah Musa, Innovative Study on the Removal of Thorium(IV) and Uranium(VI) Ions from Aqueous Solutions via Oak-Derived Charcoal: Kinetic Analysis and Adsorptive Performance
2. **Alnasra, O.**, Khalili F. & Khabas M., Removal of Th(IV) ions using a natural biochar from avocado spent seeds.
3. **Alnasra, O.**, Khalili F. & Hamadneh L., Investigating drug combinations on the A549 lung cell line using a nanosilica-cysteine composite.
4. **Alnasra, O.**, Khalili F., Omar Almaani & Shrouq AlAzzeh, Utilization of Lemon-Derived Biochar for the Removal of Synthetic Dyes in Water Treatment: A Study on Its Application in Agricultural Waste Recycling.

ATTENDING CONFERENCES & INVITATIONS:

17-18 Dec 2024 8th International Conference on Environment, ICENV 2024, Universiti Sains Malaysia.

16-17 Oct 2024 Al-Zaytoonah 9th International Pharmaceutical Conference (ZIPC 2024).

25-26 Sep 2024 First International Conference of the Faculty of Pharmacy and the Second Conference of the Middle East Association of Pharmaceutical Medicine Professionals (MEAPP/UK).

23-24 Apr 2024 Biotechnology for food security, Jerash University, Jerash, Jordan.

11 Nov 2023 The 11th Conference on Scientific Research in Jordan, Jordan Society for Scientific Research, Entrepreneurship, and Creativity (JSSREC), Al-salt, Jordan.

- 27 Oct 2023 1st IYCN Online Conference 2023, International Younger Chemists network (IYCN), Online Conference.
- 12 – 13 Sep 2023 18th Jordanian Chemistry Conference and Exhibition (JCC18-2023), Jordanian Chemical Society, Zarqa, Jordan.
- 12 – 14 Mar 2023 International Workshop on Modern Spectroscopic Techniques and Their Applications Research, University of Jordan and COMSTECH, Amman, Jordan.
- 18 – 19 Aug 2022: 30th International Conference on Science, Engineering and Technology (IICSET-22), International Academy of Advances in Engineering & Sciences, Istanbul, Turkey.
- 27 Nov 2021: 10th Conference for Scientific Research in Jordan, Jordan Society for Scientific Research, Entrepreneurship, and Creativity (JSSREC), Al-Salt, Jordan.
- 1 Dec 2020: 22nd International Scientific Conference, The Islamic World Academy of Sciences (IAS), Online.
- 9 Nov 2019: 9th Conference for Scientific Research in Jordan, Jordan Society for Scientific Research, Entrepreneurship, and Creativity (JSSREC), Amman, Jordan.
- 9 – 10 Sep 2019: International Conference on Medical, Biological and Pharmaceutical Sciences (ICMBPS), Institute for Technical and Academic Research, Istanbul, Turkey.
- 1 – 2 May 2018: 11th International Conference on Agricultural, Chemical, Biological and Medical Sciences (ACBMS-18), Eminent Association of Pioneers, Istanbul, Turkey.
- 22 – 25 June 2017: International Scientific Conference Humboldt-Kolleg of Societas Humboldtiana Polonorum “Limits of Knowledge”, Kraków, Poland.
- 5 – 6 Apr 2017: International conference of chemistry & Biosciences (ICCB2017), The 15th Jordanian Chemical Conference, (Al-Mafraq, Amman), Jordan.

TRAINING COURSES:

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- Oct – Nov 2023: International workshop in Transcriptomics, Metagenomics, and Machine Learning in Drug Design; Gen’Omics Research Hub (GENOMAC HHUB).
- Sep 2018 – Dec 2021: Training Diploma in Education; The Consultation and Training Center at The University of Jordan.
- Aug 2012 – Nov 2019: Training and development courses and efficiency improvement; Pioneers International Academy, Jordan.
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June 2012: INLPTA Diploma in the Art and Science of Neuro Linguistic Programming; International NLP Trainers Assosiation.

Mar – June 2009: Chemical Analysis Methods and Chromatography; Jordan Centre for Pharmaceutical Research, Jordan.

Jan – Feb 2009: Industrial Chemistry Training Program; Industrial Chemistry Centre, Royal Scientific Society, Jordan.

June – Aug 2008: Medical Laboratories Training Program; Gedeon Medical Laboratories, Jordan.

SKILLS AND ACTIVITIES:

- Excellent organization skills and planning.
- Excellent IT skills, including knowledge of MS Office, typing and internet.

REFERENCES:

- Prof. Dr. Fawwaz I. Khalili; (fkhalili@ju.edu.jo)
Inorganic, Nuclear, and Enviromental Chemistry,
Chemistry Department, Faculty of Science, The University of Jordan.
- Prof. Dr. Deeb Taher Alansawi; (d.taher@ju.edu.jo)
Inorganic Chemistry,
Chemistry Department, Faculty of Science, The University of Jordan.
- Prof. Dr. Imad M. Hamadneh; (i.hamadneh@ju.edu.jo)
Material Chemistry,
Chemistry Department, Faculty of Science, The University of Jordan.
- Dr. Ahmad Makahleh; (a.makahleh@ju.edu.jo)
Analytical chemistry,
Chemistry Department, Faculty of Science, The University of Jordan.
- Prof. Dr. Lama A. Hamadneh; (lama.hamadneh@gmail.com)
Molecular Medicine,
Basic Sciences Department, Faculty of Medicine, Al-Balqa Applied University.