

CURRICULUM VITAE

2025

Name: Dr. Ibrahim Diab Abu Shqair
Date of Birth: 01/10/1969
Marital Status: Married
Address: An - Najah National University. Nablus - Palestine.
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EDUCATION:

1998-2006 Ph. D in Analytical Chemistry.
An-Najah National University, Nablus, Palestine.
"Determination of some fluoroquinolone antibacterials with DNA modified electrodes and their oxidation by potassium hexacyanoferrate (III)".

1995-1998 Master Of Chemistry
An-Najah National University, Nablus, Palestine.
"Effect of acidity on the removal of copper and zinc by decaying leaves".

1991-1995 Bachelor Of Chemistry
An-Najah National University, Nablus, Palestine.

APPOINTMENTS:

2006-Presnt An-Najah National University
Assistant Professor

2001-2006: An-Najah National University
Teacher

1997-2001: An-Najah National University
Teaching Assistant

TEACHING EXPERIENCE:

- 1- General Chemistry (1), 10231101**
- 2- General Chemistry (2), 10231102**
- 3- Practical General Chemistry (1), 10231107**
- 4- Practical General Chemistry (2), 10231108**
- 5- Analytical Chemistry, 10231211**
- 6- Practical Analytical Chemistry, 10231215**
- 7- Analytical Chemistry for Health Science, 10231213**
- 8- Analytical Chemistry Lab for Health Science, 10231214**
- 9- Analytical Chemistry for Biological Science, 10231212**
- 10- Analytical Chemistry Lab for Biological Science, 10231216**
- 11- Instrumental Analytical Chemistry, 10231311**
- 12- Practical Instrumental Analysis, 10231315**
- 13- Advanced Analytical Chemistry, 10231411**
- 14- Special Topics in Analytical Chemistry, 10231481**
- 15- Advanced Instrumental Analysis, 423511 (M.Sc.)**
- 16- Environmental Chemistry, 423512 (M.Sc.)**
- 17- Electroanalytical Chemistry, 423611 (Ph.D)**

RESEARCH INTERESTS:

- 1. Sensors**
- 2. Drugs**
- 3. Environmental pollution**
- 4. Chemical analysis (Electrochemical, Spectroscopic and Chromatographic methods of analysis)**

RESEARCH SKILLS:

Ability to perform chemical analysis by using GF-FAAS, FAAS, HPLC, IR, Karl Fischer, voltammetry and spectrometry.

Computer and software: Windows, Excel, WinWord, Dos, Graphics.

SUPERVISION (MASTER STUDENTS):

1. "Synthesis of Swellable Functionalized Polymer Microspheres and Study of their Selective Optical Sensing Properties". Hanin Qasim, 2010.
2. "Adsorption of some Fluoroquinolones on Selected Adsorbents". Areej Hattab, 2010.
3. "Spectrophotometric Determination of some Metal Ions via Complex Formation with Carboxylated Tris (2-aminoethyl) amine Chelating Agent". Julnar Masharqah, 2014.
4. "Phytofiltration of Chromium (Cr) and Manganese (Mn) from Polluted Waters Using *Luffa Cylindrica*". Ayat Abu Sharbeh, 2015.
5. "Determination of Some Proteins by the Interaction with Tris-Aminocarboxylate Metal Complexes". Mervat Abu-Zeinah, 2016.
6. "The Adsorption of Lead Using Olive Cake Ash". Maisa Sowady, 2018.
7. Removal of Acetylsalicylic Acid from Water Using N-Pyrazole Modified Silica Gel". Haya Akkad, 2020.
8. "Amine Modified Silica for Water Purification from Ibuprofen and Naproxen". Ghadeer Sabaneh, 2021.
9. "Nanocrystalline Cellulose Melamine Modified with Aromatic Amine Chelating Agent: Synthesis and Evaluation as an Adsorbent for Toxic Metal Ions". Majdi Qaisy, 2021.
10. "Nanocrystalline Cellulose Melamine Schiff Base: Synthesis and Application for Lead (II) Ions Adsorption". Jomana Yaseen, 2021.
11. "Crosslinked Cellulose with Tridentate Coordination Sites: Application in Extraction of Heavy Metals from Wastewater". Shahd Shaheen, 2023.

THESIS EXAMINATION:

1. "Adsorption and desorption characteristics of endosulfan pesticide from three soils in Palestine". Karbola' Jaradat. Chemistry, 2009.
2. "Removal of heavy metal ions by polymer bound tris-amine microspheres". Lena Imad Odeh. Applied and Industrial Technology, 2012.
3. "Antioxidant activity and Phenolic content of various date palms (*Phoenix dactylifera L.*) fruits from Palestinian territories". Lara Obeyat. Applied and Industrial Technology, 2013.

4. "Recycling CdS Thin Film Solar Cells Prepared by Chemical Bath Deposition". Suhaib Al Yamani. Chemistry, 2014.
5. "Influence of Wastewater Used in Irrigation on the Physical Properties of Olive Oil in Palestine". Lena Hassan Odeh. Physics, 2015.
6. "Synthesis of 1-(Pyrrol-2-yl) imine modified silica as a new sorbent for the removal of hexavalent chromium from water". Ghadeer Hanbali, 2016.
7. "Extraction of Drugs Residuals from Aqueous Solution Using Three Types of Adsorbents". Yasmin Thaher, 2018.
8. "Continuous flow Adsorption Removal of Glimepiride Using Multi-Walled Carbon Nanotubes from Water Recourses". Obada Qut, 2020.
9. "Purification of Water in Palestine from Pesticides Using New Synthesized Cellulose Nanoparticles". Bayan Khalaf. Chemistry (Ph.D), 2021.
10. "Cellulose Based Film with Schiff Base Functionality: Preparation and Application in Adsorption of Toxic Metals from Wastewater". Noor Nairat, 2021.
11. "Copper Nanoparticles on Chemically Pure Aluminum as Nitrate Electroreduction Catalyst in Naturally Contaminated Water". Muna Sleem, 2023.
12. "Cellulose with Urethane Cross-Links Decorated with Ionic Functional Group for Wastewater Purification from Toxic Metal Ions". Shorouq Khaseeb, 2024.
13. "Thermally Bonded Composite from Palm Tree Waste: Preparation and Application in Wastewater Purification from Toxic Metals". Sarah Issa, 2024.

WORKSHOPS AND CONFERENCES:

1. A workshop about Prompt Engineering: Smart Writing for AI Tools. An – Najah National University, Palestine. May 22, 2025.
2. The First MEDRC Palestinian Water Research Alumni Forum, Water and Sustainable Development. An – Najah National University, Palestine. December 11th, 2018.
3. The Third Winter School of High Energy Physics in Palestine (WISHEPP III). An – Najah National University, Palestine. November 10th, 2018.

4. A workshop about Efficient Ecosystems for Industry – Based Learning Models. An – Najah National University, Palestine. September 8th, 2018.
5. A workshop about the role of universities in quality and accreditation in higher education. An – Najah National University, Palestine. June 12th, 2017.
6. The Second Palestinian International Graduate Conference on Natural, Medical and Health Sciences and Humanities (SPIGCNMHS 2017). An – Najah National University, Nablus, Palestine. April 20, 2017.
7. 1st Winter School in High Energy Physics in Palestine (WISHEPP). An – Najah National University, Nablus, Palestine. November 13 – 17th, 2016.
8. 5th Conference on New Trends in Higher Education. An – Najah National University, Palestine. July 26th, 2016.
9. Strengthening University-Enterprise Linkages in Palestine Conference. An – Najah National University, Palestine. June 2nd, 2016.
10. A workshop about Interactive PowerPoint. An – Najah National University, Palestine. April 21, 2016.
11. The Second Palestinian International Conference on Material Science and Nanotechnology (PICNM2016). An – Najah National University, Palestine. March 23 – 24th, 2016.
12. Computational Methods in Science and Engineering. An – Najah National University, Palestine. March 14, 2015.
13. The Eighth Palestinian International Chemistry Conference. An – Najah National University, Palestine. April 21 – 22, 2015.
14. A workshop about Problem Based Learning. An – Najah National University, Palestine. April 2nd, 2015.
15. A workshop about Interactive PowerPoint. An – Najah National University, Palestine. January 14th, 2015.
16. 3^{ed} Conference on New Trends in Learning – Community Based Learning. An – Najah National University, Palestine. May 30 – 31, 2014.
17. A workshop about Intended Learning Outcomes, ILOs. An – Najah National University, Palestine. February 2nd, 2014.
18. Symposia on Excellence in Learning and Teaching in Higher Education. An – Najah National University, Palestine. May 22, 2013.
19. The 7th Palestinian International Chemistry Conference. Birzeit University, Palestine. March 23 – 24th, 2013.

20. The 5th Palestinian International Chemistry Conference, "Chemistry and sustainable development". June 1st – 2nd, 2011.
21. A workshop about "Ozone Depleting Substances", Environmental Quality Authority. Ramallah, Palestine. May 24th, 2011.
22. International Graduate Conference on Science, Humanities and Engineering 2011. An – Najah National University, Nablus, Palestine. May 4 – 5th, 2011.
23. EMUNI Day; "Universities and Communities: One Challenge and Multiple Horizons". An Najah National University, Nablus, Palestine. April 20th, 2011.
24. "Management, training and waste – disposal towards a greener environment". Al – Quds University, Abu Dis/Jerusalem. February 12th, 2011.
25. Second conference on Biotechnology Research and Application In Palestine. An Najah National University, Palestine. September 26 – 27th, 2010.
26. A workshop about intended learning outcomes, ILOs. An – Najah National University, Palestine. April 5th, 2010.
27. Palestinian Conference on Modern Trends in Mathematics and Physics II. An – Najah National University, Palestine. August 2nd, 2010.
28. A workshop about the EU 7th Framework Program, FP7. An – Najah National University, Palestine. December 9th, 2009.
29. Several workshops about e – learning, using SCORM standards. An – Najah National University, Palestine 2009.
30. A workshop about developing scientific research in Palestine: Future aspects. An – Najah National University, Palestine. January 16th, 2008.

COMMITTEE MEMBERSHIP:

1. Member of coordination committee for analytical and general chemistry courses.
2. Member of committee for quality assurance of chemistry department.
3. Member of self-evaluation committee of chemistry program.
4. Member of the organizing committee for the Fifth Palestinian International Chemistry Conference (2011).
5. Member of the committee of the teaching plan for chemistry program.
6. Member of the organizing committee for the Eighth Palestinian International Chemistry Conference (2015).

- 7.** Member of the comprehensive exam committee for master students (Chemistry Program) (2015).
- 8.** Member of the poster evaluation committee of the second Palestinian International Conference on Material Science and Nanotechnology (PICNM2016).
- 9.** Member of the committee of employment in the chemistry department at An-Najah National University (2016 – 2017).
- 10.** Member of the committee of organizing research labs at chemistry department at An-Najah National University (2016 – 2017).
- 11.** Member of the social committee at chemistry department at An-Najah National University (2016 – 2017).
- 12.** Member of the conference committee of the Second Palestinian International Graduate Conference on Natural, Medical and Health Sciences and Humanities (SPIGCNMHSH 2017).
- 13.** Member of the Council of Faculty of Science at An-Najah National University (2016 – 2017).
- 14.** Member of the social committee of the Faculty of Science at An-Najah National University (2017 – 2018).
- 15.** Member of the social committee of the chemistry department at An-Najah National University (2017 – 2018).
- 16.** Member of the Graduate Studies Committee – Chemistry Department at An-Najah National University (2018 – 2019).
- 17.** Head of the Scientific (Seminars) Committee of the Faculty of Science at An-Najah National University (2018 – 2019).
- 18.** Coordinator of the Scientific (Seminars) Committee of the Faculty of Science at An-Najah National University (2021 – 2022).
- 19.** Member of the organizing committee for CHEM EXPO 2022. An-Najah National University (2022).
- 20.** Member of the comprehensive exam committee for PhD students (Chemistry Program) (2025).
- 20.** Member of the social committee at chemistry department at An-Najah National University (2025 – 2026).
- 21.** Member of the graduate studies (master) committee at chemistry department at An-Najah National University (2025 – 2026).

22. Member of the committee for studying the department's need and employment at chemistry department at An-Najah National University (2025– 2026).

FUNDS:

Research visit to Ecole Normale Superior, Paris, France. September - December 2000. Funded by CRS.

REFERENCES:

- 1.** Professor Radi Salim
Department of Chemistry
An-Najah National University
Nablus, Palestine

- 2.** Professor M. M. Al Subu
Department of Chemistry
An-Najah National University
Nablus, Palestine

PUBLICATIONS:

- 1.** "Removal of Dissolved Copper from Polluted Water Using Plant Leaves: I. Effect of Acidity and Plant Species". M.M. Al-Subu, R. Salim, I. Abu-Shqair and K.M. Swaileh. *Rev. Int. Contam. Ambient.* 17(2), 91-96, 2001.
- 2.** "Removal of Zinc from Aqueous Solutions by Dry Plant Leaves". R. Salim, M. Al-Subu, I. Abu-Shqair and H. Braik. *TransIChem*, 81, Part B, 236-242, 2003.
- 3.** "Spectroscopic Studies on the Binding of Some Fluoroquinolones with DNA". Ibrahim Abu-Shqair, Nizam Diab, Radi Salim, Mohammad Al-Subu. *Asian Journal of Applied Sciences*, Volume 01– Issue 05, 179 – 184, 2013.
- 4.** "Kinetics of Oxidation of Some Fluoroquinolones by Hexacyanoferrate (III) in Alkaline Medium". Nizam Diab, Ibrahim Abu-Shqair, Mohammad Al-Subu, Radi Salim. *International Journal of Chemistry*, Vol.34, Issue.2 1388 – 1394, 2013.

5. "The Behavior of Ciprofloxacin at a DNA Modified Glassy Carbon Electrodes". Nizam Diab, Ibrahim Abu-Shqair, Radi Salim and Mohammad Al-Subu. *Int. J. Electrochem. Sci.*, 9, 1771 – 1783, 2014.
6. "Polyvinylbenzyl Tris-Aminodicarboxylate Microspheres for the Optical Sensing of Cu²⁺ Ions". Ziad M. Shakhsher, Ibrahim Abu Shqair, Hanin R. Qasim and Imad Odeh. *American Journal of Analytical Chemistry*, 5, 122-127, 2014.
7. "Spectrophotometric Determination of Cu²⁺ Metal Ions via Complex Formation with Carboxylated Tris (2-aminoethyl)amine". Ibrahim Abu Shqair, Ziad M. Shakhshir, Julnar Masharqah, Imad Odeh, Waheed J. Jondi. *Journal of Advances in Chemistry*, Vol. 12, No. 3, 4237 – 4246, 2016.
8. "Cellulose Powder Functionalized with Phenyl biguanide: Synthesis, Cross-linking, Metal Adsorption, and Molecular Docking". Othman Hamed, Majdi Qisi, Ibrahim Abu Shqair, Avni Berisha, Omar Dagdag, Alaa Janem, Khalil Azzaoui, Belkheir Hammouti. *BioResources*, 16(4):7263-7282, 2021.