

PERSONAL INFORMATION



Bayan Mohamad Mahmoud Khalaf

 Jenin, Palestine

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Sex Female | Date of birth 7 October 1992 | Nationality Palestinian | Marital status Single

EDUCATION

Since Sep. 2017

PhD in Analytical and Physical Chemistry

Faculty of Graduate Studies, An-Najah National University, Nablus, Palestine. Agrosphere Institute, Research Center Juelich, Juelich, Germany. Average (3.81 out of 4.00). PhD Thesis: Purification of Water in Palestine from Persistent Pesticides using New Synthesized Cellulose Nanoparticles.

Aug. 2014 – Apr. 2016

Master in Analytical and Physical Chemistry

Faculty of Graduate Studies, An-Najah National University, Nablus, Palestine. Average (3.61 out of 4.00). Master Thesis: Purification of Groundwater from Heavy Toxic Metals using Suspended Polydentate Supported Ligands.

Oct. 2010 – Mar. 2014

Bachelor in Chemistry

Faculty of Science, Arab American University, Jenin, Palestine. Average (3.36 out of 4.00).

Sep. 2009 – July 2010

General Secondary Education Examination

Burqin Secondary Girls School, Jenin, Palestine. Average (93.9 out of 100.0).

WORK EXPERIENCE

Since Nov. 2020 & Oct. 2016 – Feb. 2018

Lecturer

Department of Industrial Chemistry, Arab American University, Jenin, Palestine. Teaching Courses: Physical Chemistry I, Chemistry For Medical Sciences, Pre-Chemistry, Chemistry Laboratory For Medical Students, General Chemistry Lab I, General Chemistry Lab II.

Since Feb. 2020

Program Coordinator

Coordinator for External Opportunities Program. TAMKEEN Foundation, Madrid, Spain.

Since Oct. 2015

Researcher

Water Research. Department of Chemistry, An-Najah National University, Nablus, Palestine.

May 2018 – Aug. 2018

Lecturer

Department of Chemistry, Al-Quds Open University, Jenin, Palestine. Teaching Courses: Organic Chemistry, Organic Chemistry Laboratory.

Nov. 2013 – Oct. 2016

Tutor

Teaching Chemistry Courses for high School and University Students. Teaching Centers, Jenin, Palestine.

FELLOWSHIPS & AWARDS

Since Sep. 2018

- MEDRC PhD Fellowship in partnership between MEDRC Water Research and Palestinian Water Authority. An-Najah National University, Nablus, Palestine.

Mar. 2020

- Young Scientist Award. Lindau Nobel Laureate Meetings, Bavaria, Germany.

Jan. 2020

- World Water Envoy Award. International Water Resources Association (IWRA), Paris, France.

May 2019 – Jan. 2020

- PGSB Research Fellowship in Partnership between Palestinian German Science Bridge and Research Center Juelich. (Two Research Visits: Four Months as total). Institute of Bio- and Geosciences (IBG-3) and Institute of Neuroscience and Medicine (INM-5), Research Center Juelich, Juelich, Germany.

Mar. 2019

- MEDRC Innovation Initiative Research Grant Awarded by Middle East Desalination Research Center (MEDRC Water Research), Muscat, Oman.

Feb. 2019

- First Place Award (Golden Researcher) for the Successful Completion of Golden Woman Awarded by TAMKEEN Foundation, Madrid, Spain.

FELLOWSHIPS & AWARDS

(Continued)

Nov. 2018

- Research Grant Awarded by TAMKEEN Foundation, Madrid, Spain.

Aug. 2015 – Feb. 2016

- Fellowship Award for the Successful Completion of the Water Research MSc Fellowship Program in Partnership between MEDRC Water Research and Palestinian Water Authority. An-Najah National University, Nablus, Palestine.

COURSES

Since Aug. 2020

- Scientists Women Course, Tamkeen Foundation.

June 2020 – Oct. 2020

- Technical Course of Wastewater Treatment. E-Hydroaid - Water for Development Management Institute.

Aug. 2020 – Sep. 2020

- Trainers and Facilitators Course. E-learning, Afaq Initiative.

Feb. 2020 – Sep. 2020

- DAAD DIES ProGRANT Course: "Proposal Writing for Research Grants". German Academic Exchange Service.

July 2020

- Designing and Planning Entrepreneurship Projects. E-learning, Afaq Initiative.

MEMBERSHIPS

Since Sep. 2020

- Member at Phi Science Community, Phi Science Institute, Jordan.

Since Aug. 2020

- Member at Scientists for Palestine (S4P), Palestine.

Since Aug. 2020

- Young Professional Membership, International Water Resources Association (IWRA), France.

Since July 2020

- Member at Water Youth Network, France.

Since July 2020

- Lindau Alumni Network, Lindau Nobel Laureate Meetings, Germany.

Since Feb. 2020

- Member at Palestinian Green Authority, Palestine.

Since Feb. 2020

- Full Member at Organization for Women in Science (OWSD) for the Developing World, Italy.

Since Dec. 2019

- Researchers Membership, TAMKEEN Foundation, Spain.

Since Oct. 2019

- Member in the Chemical Society, Palestine Academy for Science and Technology, Palestine.

SCIENTIFIC ACTIVITIES

- Participation in IWRA Online Conference on Groundwater and Climate Change, 28-30 October 2020. International Water Resources Association.

- Participation in Online Workshop "From PhD to Innovator", 12-13 October 2020. Young Entrepreneurs in Science.

- Speaker at the Online Event "Palestinian researchers: Reality Examination and Facing of Challenges", 12 September 2020. Tamkeen Foundation.

- Participation in Online Arab Science Week, 15-23 August 2020.

- Participation in Virtual Phi's Research and Innovation Summit, 3-4 July 2020. Phi Science Institute.

- Participation in Online Science Days, 28 June - 1 July 2020. Lindau Nobel Laureate Meetings.

- Participation in Tamkeen First Winter Camp for Women to Promote and Empower Palestinian Women's Leadership, 3-10 February 2020. Istanbul, Turkey.

- Participation in Juelich Career Day, 8 November 2019. Research Center Juelich, Juelich, Germany.

- Participation in AGYA Training Workshop "How to Integrate Interdisciplinary Courses in Arab and German Universities", 29-31 August 2019. Jeniva Hotel, Amman, Jordan.

- Participation in AGYA Summer School in Numerical Simulation, 18-28 August 2019. Palestine Polytechnic University (Hebron, Palestine) and Bethlehem University (Bethlehem, Palestine).

- Participation in The Forth Palestinian German Science Bridge Cooperation Workshop, 7-10 April 2019. Ramallah, Palestine.

- Organization of The First MEDRC Palestinian Water Research Alumina Forum. Responsibilities: Head Speaker, Student Chair, and member in the Organizing and Scientific Committees, 11 December 2018. An-Najah National University, Nablus, Palestine.

- Poster Presentation in The Third Palestinian German Science Bridge Cooperation Workshop, 25-29 June 2018. Research Center Juelich, Juelich, Germany.

SCIENTIFIC ACTIVITIES (Continued)

- Participation in The Second Palestinian German Science Bridge Cooperation Workshop, 12-15 November 2017. Ramallah, Palestine.
- Oral Presentation in The First Falling Walls Lab in Palestine, 24 May 2017. Birzeit University, Ramallah, Palestine.
- Poster Presentation in The Second Palestinian International Graduate Conference on Natural, Medical and Health Sciences and Humanities (SPIGCNMHSH 2017), 20 April 2017. An-Najah National University, Nablus, Palestine.
- Participation in The First Winter School of High Energy Physics in Palestine (WISHEPP), 13-17 November 2016. An-Najah National University, Nablus, Palestine.
- Oral Presentation in The Seventh Jordanian International Conference of Chemistry, 19-21 April 2016. Yarmouk University, Irbid, Jordan.
- Poster Presentation in The Second Palestinian International Conference on Materials Science and Nanotechnology, 23-24 March 2016. An-Najah National University, Nablus, Palestine.

PUBLICATIONS

- Ghadir Hanbali, Shehdeh Jodeh, Othman Hamed, Roland Bol, **Bayan Khalaf**, Asma Qdemat, Subhi Samhan, Omar Dagdag. "**Magnetic Multiwall Carbon Nanotube Decorated with Novel Functionalities: Synthesis and Application as Adsorbents for Lead Removal from Aqueous Medium**". *Processes*, 2020, 1-18.
<https://www.mdpi.com/2227-9717/8/8/986>
- Ghadir Hanbali, Shehdeh Jodeh, Othman Hamed, Roland Bol, **Bayan Khalaf**, Asma Qdemat, Subhi Samhan. "**Enhanced Ibuprofen Adsorption and Desorption on Synthesized Functionalized Magnetic Multiwall Carbon Nanotubes from Aqueous Solution**". *Materials*, 2020, 1-22.
<https://www.mdpi.com/1996-1944/13/15/3329>
- O. Dagdag, M. El Gouri, A. El Mansouri, A. Outzourhit, A. El Harfi, O. Cherkaoui, A. El Bachiri, O. Hamed, S. Jodeh, G. Hanbali, **B. Khalaf**. "**Rheological and Electrical Study of a Composite Material Based on an Epoxy Polymer Containing Cyclotriphosphazene**". *Polymers*, 2020, 1-9.
<https://www.mdpi.com/2073-4360/12/4/921/htm>
- Lubna Siam, Issam AL Khatib, Fathi Anayah, Shehdeh Jodeh, Ghadir Hanbali, **Bayan Khalaf**, Abdalhadi Deghles. "**Developing a Strategy to Recovering Condensate Water from Air Conditioners in Palestine**". *Water*, 2019, 1-17.
<https://www.mdpi.com/2073-4441/11/8/1696>
- Omar Dagdag, Ghadir Hanbali, **Bayan Khalaf**, Shehdeh Jodeh, Ahmed El Harfi, Abdelhadi Deghles. "**Dual Component Polymeric Epoxy-Polyaminoamide Based Zinc Phosphate Anticorrosive Formulation for 15CDV6 Steel**". *Coatings*, 2019, 1-11.
<https://www.mdpi.com/2079-6412/9/8/463>
- Nibal Al-Batsh, Issam A. Al-Khatib, Subha Ghannam, Fathi Anayah, Shehdeh Jodeh, Ghadir Hanbali, **Bayan Khalaf**, Michael van der Valk. "**Assessment of Rainwater Harvesting Systems in Poor Rural Communities: A Case Study from Yatta Area, Palestine**". *Water*, 2019, 1-15.
<https://www.mdpi.com/2073-4441/11/3/585>
- Shehdeh Jodeh, Inas Ibsharat, **Bayan Khalaf**, Othman Hamed, Diana Jodeh, Dagdag Omar. "**The Use of Magnetic Multiwalled Carbon Nanotubes Functionalized with Chitosan for Nitrate Removal from Wastewater**". *Chemistry Africa*, 2019, 321-333.
<https://link.springer.com/article/10.1007/s42250-019-00056-z>
- A. Jaafar, A. Boussaoud, S. Jodeh, K. Azzaoui, B. Hamed, R. Salghi, **B. Khalaf**, G. Hanbali, A. Rasem Hasan. "**Neutral red removal Using different techniques: Direct photolysis, UV/H₂O₂, Fenton and Photo-Fenton**". *Der Pharma Chemica*, 2016, 345-349.
<http://derpharmachemica.com/vol8-iss18/DPC-2016-8-18-345-349.pdf>
- **Bayan Khalaf**, Shehdeh Jodeh, Ismail Warad. "**Purification of Groundwater from Heavy Toxic Metals using Suspended Polydentate Supported Ligands**". *Repository of An-Najah National University*. 2016, 1-167.
<https://repository.najah.edu/handle/20.500.11888/8519>

PUBLICATIONS

(Continued)

- Shehdeh Jodeh, **Bayan Khalaf**, Smaail Radi, Said Tighadouini, Rachid Salghi, Sobhi Samhan, Diana Jodeh, Ismail Warad. A. Rasem Hasan, Ghadir Hanbaly. "**Using New Synthesized Polysiloxane Modified with Nitrophenyl as a Low Cost Adsorbents For Nickel Removal From Wastewater**". International Journal of Application or Innovation in Engineering & Management (IJAIEM), 2016, 23194847.

<http://www.ijaiem.org/Volume5Issue9/IJAIEM-2016-09-25-34.pdf>

- Shehdeh Jodeh, **Bayan Khalaf**, Smaail Radi, Said Tighadouini, Rachid Salghi, Sobhi Samhan, Ismail Warad, Khalil Azzaoui, Diana Jodeh. "**Adsorption of Lead (II) from Aqueous Solution by Using Polysiloxane Surfaces Modified with Ortho-, Meta-, or Para- Nitrophenyl Moieties**". Der Pharma Chemica, 2016, 8(2):444-461.

<http://derpharmachemica.com/vol8-iss2/DPC-2016-8-2-444-461.pdf>

- Shehdeh Jodeh, **Bayan Khalaf**, Smaail Radi, Said Tighadouini, Rachid Salghi, Sobhi Samhan, Ismail Warad, Diana Jodeh. "**New Polysiloxane Surfaces Modified with Ortho-, Meta-, or Para-Nitrophenyl Moieties for Cadmium Removal from Water**". Journal of Surface Engineered Materials and Advanced Technology 6, no. 02 (2016): 18-35.

http://file.scirp.org/pdf/JSEMAT_2016040714352534.pdf

PERSONAL SKILLS

Languages

Arabic (Native Speaker), **English** (Proficient).

Computer Knowledge

Competent with most Microsoft Office Programs.

Skills

- Water Treatment, Batch Experiments, Synthesis of Low-cost Adsorbents.
- Basic Knowledge in UV, SEM, TGA, NMR, IR, GC-MS, HPLC and other Instruments.

Hobbies

Traveling, Cooking, Chess, Intelligence Games.

VOLUNTEERING

Since Feb. 2020

- Volunteering with Matar Initiative to improve and facilitate educational and cultural opportunities for blind students.

Since Aug. 2019

- Admin of Four Groups on Facebook (Responsible of Publishing New Opportunities for College Students and Researchers).

Since Oct. 2018

- Participation in the Organization of Several Scientific Conferences and Events.

Since Oct. 2018

- Time Banking Volunteering with TAMKEEN Foundation to improve Palestinian Women's life.

Since Nov. 2013

- Teaching High School and University Students (Small Group Learning).

REFERENCES

- Prof. Shehdeh Jodeh, Chemistry Department, An-Najah National University, Nablus, Palestine.
Tel: +972 599 590 498, email: sjodeh@hotmail.com

- Prof. Erwin Klumpp, Institute of Bio- and Geosciences (IBG-3), Forschungszentrum Jülich, Germany.
Tel: +49 2461 61-6635, email: e.klumpp@fz-juelich.de

- Dr. Othman Hamed, Chemistry Department, An-Najah National University, Nablus, Palestine.
Tel: +972 594 466 271, email: ohamed@najah.edu

- Dr. Roland Bol, Institute of Bio- and Geosciences (IBG-3), Forschungszentrum Jülich, Germany.
Tel: +49 2461 61-6653, email: r.bol@fz-juelich.de

- Dr. Nizam Diab, Industrial Chemistry Department, Arab American University, Jenin, Palestine.
Tel: +972 599 775 653, email: nizam.diab@aauj.edu