PERSONAL INFORMATION

Ghadir M. N. Hanbali

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F.B. Ghadir Hanbali

Sex: Female | Date of birth: 23/3/1993| Nationality: Palestinian

WORK EXPERIENCE

(2014-2016)	Teaching Assistant at An-Najah National University, Nablus, Palestine
(2016-2017)	Lecture at the College of Haja Andaleeb AL-amad Nursing & Midwifery, Nablus
(2016-Now)	Working as Part Timer in the Department of Chemistry at An-Najah National University
(2022-Now)	Chemistry teacher at Gamal Abdel Nasser School - Nablus

EDUCATION

(2009-2010)	**Al-Aeshiya-Secondary-Girls-School.** Scientific Branch	**Graduate** **96.2/100**
(2010-2014)	**An-najah National University.** Chemistry department	**Graduate** **(B.Sc.)** **GPA 3.78/4**
(2014-2016)	**An-najah National University.** Chemistry department	**Graduate** **(M.Sc.)** **GPA 4/4**
(2016-2020)	**An-najah National University.** **Julich Forschungszentrum(Germany)** Analytical & Organic Chemistry	**(PhD)** **GPA 4/4**

TRAINING & CERTIFICATIONS

Training course in chemical analyzes by 40 hours of training at the Center for Toxicology and Chemical and Biological Analysis and Drug Control	An- Najah National University, Nablus, West Bank, (Telephone): +972 (9)2345115	2014
Training course in English conversation by 20 hours of training.	Headquarters of the National Initiative in Nablus	2014
Training course in first aid by 20 hours,	An-Najah National University, Nablus, West Bank, (Telephone): +972 (9)2345115	2014
Training at the Dana factory veterinary medicines	Al-Quds street, Nablus	2015
Training course in writing for academic Publication (20 hours)	via zoom platform	2021
Training course in the field of entrepreneurship (20 hours)	via zoom platform	2021
Webinar workshop create e-learning platforms	via zoom platform	2023
Participation in 70 hour WELL program funded by U.S. Embassy, Jerusalem.	AMIDEAST	2025

PERSONAL SKILLS

Mother tongue(s): Arabic

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
English	Listening	Reading	Spoken interaction	Spoken production	
	C1	C1	B2	B2	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages

Communication skills: Emotional Intelligence, Friendliness, Confidence, Empathy, Listening, Respect, Open Mindedness, Performing the right tone of voice

Organizational / Managerial skills: Planning and Analysing, Organizing, Coordinating , Directing, Over sight and Achieving targets.

Research skills: Good command of research material, performing a critical thinking, advance searching, Academic ethics with research's frame work.

Digital skills

SELF-ASSESSMENT

Information processing	Communication	Content creation	Windows	Photoshop
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

ADDITIONAL INFORMATION

Presentations and Projects

- Speaker at second Palestinian international graduate conference on natural, medical and health sciences and humanities at an najah national university, Palestine. Nov, 2015, Paper: " Synthesis of 1-(Pyrrol-2-yl) imine modified silica as a new sorbent for the removal of hexavalent chromium from water".
- Best Oral presenter at MEDRC Forum, Al-Najah University,16 Dec,2019
- Conference Paper: "Assessment and removal of heavy trace metals by magnetic multiwall carbon nanotube decorated by novel functionality from ground water in Jericho, Palestine"
- Participation in the 4th Winter School in High Energy Physics at an-Najah national university in Palestine, Nov,9-15,2019
- Participation in the 1st Palestinian MEDRC International Alumni Forum as organizing and scientific committee at Al-Najah national university,12 Dec,2019
- Participating in a project with USAID (Acceleration Aquifer Storage and Recovery) ,(2016-2019)
- Guest editor at Frontiers in chemistry journal, (impact factor 5.411, 2022).
- Participated in the 20th Annual Meeting of Science and Technology in Society Forum (STS forum) held from October 1 to October 3, 2023.
- Participation in 70 hour WELL program funded ny U.S. Embassy, Jerusalem. September 2025
- Almaqdisi Project funded by France government, 2025

Honours and awards

- Scholarship from MEDRC for master theises ,2016
  Research title: "Synthesis of 1-(Pyrrol-2-yl) imine modified silica as a new sorbent for the removal of hexavalent chromium from water"
- Scholarship from MEDRC for PhD theises ,2018
  Research title: "Assessment and removal of heavy trace metals by magnetic multiwall carbon nanotube decorated by novel functionality from ground water in Jericho, Palestine

- Research grant from Julich Forschungszentrum , Germany,2019.
- Innovation Initiative Research Grant Program (I2). 2019/2020.
- Member in OWSD (scientific committee).
- Research Excellence Award for papers extracted from Ph.D. dissertations from An-Najah University for the year 2021
- TWAS Young Arab Scientist (YAS) Prize for 2021 in "Scientific and Technological Achievement in Engineering Sciences"
- Innovation Initiative Research Grant Program (I2), 2022
- TWAS Young Affiliates for a period from 2022-2027
- The third prize for the best applied research in the field of water and sanitation in Palestine in 2023.

Publications

2026

- Berrahou S, Latifi S, Saoiabi S, Abidi N, Saoiabi S, Azzaoui K, **Hanbali G**, Jodeh S, Hammouti B, Sabbahi R. Hydroxyapatite–cellulose composites: properties, fabrication methods, and applications. Journal of Materials Science: Materials in Medicine. 2026 Jan 23.

- Eid, A., Jodeh, S., Eid, R., **Hanbali, G**., Chakir, A., & Roth, E. (2026). Adaptive Data-Driven Framework for Unsupervised Learning of Air Pollution in Urban Micro-Environments. *Atmosphere*, *17*(2), 125.

2025

- Eid, A., Jodeh, S., **Hanbali, G.**, Hawawreh, M., Chakir, A., & Roth, E. (2025). Multi-output machine-learning prediction of volatile organic compounds (VOCs): Learning from co-emitted VOCs. *Environments*, *12*(7), 216.
- Al-Labadi, I. G., Horváth, M., Alkilani, A. T., Al-Ma'abreh, A. M., Bashir, M., Keshta, B. E., … Eid, M. H. (2025). Simultaneous adsorptive removal of Pb^{2+}, Cd^{2+}, Cu^{2+}, and Zn^{2+} using raw Norway spruce biomass: A low-cost and eco-friendly solution for wastewater treatment. *Frontiers in Water*, *7*, 1612232.
- Latifi, S., Azzaoui, K., Sabbahi, R., **Hanbali, G.**, Hammouti, B., Merzouki, M., … Saoiabi, S. (2025). Gum Arabic modified nano-hydroxyapatite for cobalt (II) removal from water: Adsorption performance and molecular-level mechanism. *Desalination and Water Treatment*, 101272.
- Bourassi, L., Miled, B., Cauret, L., Bouammali, B., Elfarh, L., **Hanbali, G.**, … Challioui, A. (2025). Development and characterization of biocomposites based on hydroxyethylcellulose and epoxidized natural rubber. *Scientific Reports*, *15*(1), 40003.
- Al-Labadi, I. G., Horváth, M., Alkilani, A. T., Al-Ma'abreh, A. M., Bashir, M., Keshta, B. E., ... & Eid, M. H. (2025). Simultaneous Adsorptive Removal of Pb^{2+}, Cd^{2+}, Cu^{2+}, and Zn^{2+} Using Raw Norway Spruce Biomass: A Low-Cost and Eco-Friendly Solution for Wastewater Treatment. *Frontiers in Water*, *7*, 1612232.
- Azzaoui, K., Aaddouz, M., Jodeh, S., Hammouti, B., Hanbali, G., Sabbahi, R., ... & Chakir, A. (2025). A novel approach to prepare a composite of hydroxyapatite with cellulose nanocomposites by novel methods including theoretical studies. *Scientific Reports*, *15*(1), 10665.

- Zerrouk, M., Er-rajy, M., Azzaoui, K., Sabbahi, R., Hanbali, G., Jodeh, S., ... & Ouarsal, R. (2025). DFT computation-assisted design and synthesis of trisodium nickel triphosphate: Crystal structure, vibrational study, electronic properties and application in wastewater purification. *Journal of Molecular Structure*, *1329*, 141450.
- Latifi, S., Saoiabi, S., Alanazi, M. M., Boukra, O., Krime, A., El Hammari, L., ... & Abidi, N. (2025). Low-Cost Titania-Hydroxyapatite (TiHAp) nanocomposites were synthesized for removal of Methylene blue under Solar and UV irradiation. *Next Materials*, *8*, 100859.
- Latifi, S., Azzaoui, K., Sabbahi, R., Hanbali, G., Hammouti, B., Merzouki, M., ... & Saoiabi, S. (2025). Gum Arabic Modified Nano-Hydroxyapatite for Cobalt (II) Removal from Water: Adsorption Performance and Molecular-Level Mechanism. *Desalination and Water Treatment*, 101272.

2024

- El Khalki, S., Ghalit, M., Elbarghmi, R., Azzaoui, K., Jodeh, S., Hanbali, G., & Lamhamdi, A. (2024). Identification of hydrochemical processes of groundwater in Nekor-Ghiss plain (Morocco): using the application of multivariate statistics and Geographic Information Systems (GIS) to map groundwater. *Applied Water Science*, *14*(8), 166.
- Latifi, S., Saoiabi, S., Loukili, E. H., Azzaoui, K., Hammouti, B., Abidi, N., ... & Saoiabi, A. (2024). Preparation of cellulose-hydroxyapatite composites using 3D printing for biomedical applications. *Moroccan Journal of Chemistry*, *12*(2), 884-914.

2022

- Jodeh, S., Jaber, A., **Hanbali, G.**, Massad, Y., Safi, Z. S., Radi, S., … Dagdag, O. (2022). Experimental and theoretical study for removal of trimethoprim from wastewater using organically modified silica with pyrazole-3-carbaldehyde bridged to copper ions. *BMC Chemistry*, *16*(1), 1–17. (IF ≈ 2.09)
- Hamed, R., Jodeh, S., **Hanbali, G.***, Safi, Z., Berisha, A., Xhaxhiu, K., … Dagdag, O. (2022). Eco-friendly synthesis and characterization of double-cross-linked 3D graphene oxide functionalized with chitosan for adsorption of sulfamethazine from aqueous solution: Experimental and DFT calculation. *Frontiers in Environmental Science*, 977. (IF ≈ 4.7)
- Algarra, M., Jodeh, S., Aqel, I., **Hanbali, G.**, Radi, S., Tighadouini, S., … Alkowni, R. (2022). Phenylamine/amide grafted silica as sensing nanocomposites for the removal of carbamazepine: A DFT approach. *Chemosensors*, *10*(2), 76. (IF ≈ 3.93)
- Akartasse, N., Azzaoui, K., Mejdoubi, E., Elansari, L. L., Hammouti, B., Siaj, M., ... & Rhazi, L. (2022). Chitosan-hydroxyapatite bio-based composite in film form: synthesis and application in wastewater. *Polymers*, *14*(20), 4265.
- Akartasse, N., Azzaoui, K., Mejdoubi, E., Elansari, L. L., Hammouti, B., Siaj, M., ... & Rhazi, L. (2022). Chitosan-hydroxyapatite bio-based composite in film form: synthesis and application in wastewater. *Polymers*, *14*(20), 4265.

2021

- Akartasse, N., Azzaoui, K., Mejdoubi, E., **Hanbali, G.**, Elansari, L. L., Jodeh, S., … Lamhamdi, A. (2021). Study and optimization of the synthesis of apatitic nanoparticles by the dissolution/precipitation method. *Arabian Journal for Science and Engineering*, 1–17. (IF ≈ 3.08)
- Jodeh, S., Erman, I., Hamed, O., Massad, Y., **Hanbali, G.**, Samhan, S., … Serdaroğlu, G. (2021). Zeolite/cellulose acetate blend fiber for adsorption of erythromycin residue from pharmaceutical wastewater: Experimental and theoretical study. *Frontiers in Chemistry*, *9*. (IF ≈ 4.87)
- Massad, Y., **Hanbali, G.**, Jodeh, S., Hamed, O., Bzour, M., Dagdag, O., & Samhan, S. (2021). Removal efficiency of malathion pesticide using functionalized multi-walled carbon nanotubes: Impact of dissolved organic matter. *Separation Science and Technology*, 1–12. (IF ≈ 2.48)

- Khalaf, B., Hamed, O., Jodeh, S., **Hanbali, G.**, Bol, R., Dagdag, O., & Samhan, S. (2021). Novel environment-friendly cellulose-based derivatives for tetraconazole removal from aqueous solution. *Polymers, 13*(3), 450. (IF ≈ 4.33)
- Khalaf, B., Hamed, O., Jodeh, S., Bol, R., **Hanbali, G.**, Safi, Z., … Samhan, S. (2021). Cellulose-based heterocycle nanopolymers: Synthesis, molecular docking, and adsorption of difenoconazole from aqueous medium. *International Journal of Molecular Sciences, 22*(11), 6090. (IF ≈ 5.92)

2020

- **Hanbali, G.**, Jodeh, S., Hamed, O., Bol, R., Khalaf, B., Qdemat, A., & Samhan, S. (2020). Enhanced ibuprofen adsorption and desorption on synthesized functionalized magnetic multiwall carbon nanotubes from aqueous solution. *Materials, 13*(15), 3329. (IF ≈ 3.75)
- **Hanbali, G.**, Jodeh, S., Hamed, O., Bol, R., Khalaf, B., Qdemat, A., … Dagdag, O. (2020). Magnetic multiwall carbon nanotube decorated with novel functionalities: Synthesis and application as adsorbents for lead removal from aqueous medium. *Processes, 8*(8), 986. (IF ≈ 3.35)
- Dagdag, O., El Gouri, M., El Mansouri, A., Outzourhit, A., El Harfi, A., Cherkaoui, O., El Bachiri, A., Hamed, O., Jodeh, S., **Hanbali, G.**, & Khalaf, B. (2020). Rheological and electrical study of a composite material based on an epoxy polymer containing cyclotriphosphazene. *Polymers, 12*(4), 921. (IF ≈ 4.33)

2019 and Earlier

- Jodeh, S., **Hanbali, G.**, Tighadouini, S., Radi, S., Hamed, O., & Jodeh, D. (2019). Removal and extraction efficiency of quaternary ammonium herbicide paraquat (PQ) using functionalized silica hybrid adsorbent. *BMC Chemistry, 13*(1), 86. (IF ≈ 2.09)
- Al-Batsh, N., Al-Khatib, I. A., Ghannam, S., Anayah, F., Jodeh, S., **Hanbali, G.**, … Vander Valk, M. (2019). Assessment of rainwater harvesting systems in poor rural communities: A case study from Yatta area, Palestine. *Water, 11*(3), 58. (IF ≈ 3.17)
- Dagdag, O., **Hanbali, G.**, Khalaf, B., Jodeh, S., El Harfi, A., & Deghles, A. (2019). Dual-component polymeric epoxy–polyaminoamide based zinc phosphate anticorrosive formulation for 15CDV6 steel. *Coatings, 9*(8), 463. (IF ≈ 2.86)
- Siam, L., Al-Khatib, I. A., Anayah, F., Jodeh, S., **Hanbali, G.**, Khalaf, B., & Deghles, A. (2019). Developing a strategy to recover condensate water from air conditioners in Palestine. *Water, 11*(8), 1696. (IF ≈ 3.17)
- El Makrini, B., Lgaz, H., Toumiat, K., Salghi, R., Jodeh, S., **Hanbali, G.**, … Zougagh, M. (2016). Adsorption and corrosion-inhibiting effect of 5-benzyloxy-6-methoxyindole on mild steel surface in hydrochloric acid solution: Electrochemical and Monte Carlo simulation studies. *Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7*(5), 2277–2285.
- El Makrini, B., Toumiat, K., Lgaz, H., Salghi, R., Jodeh, S., **Hanbali, G.**, … Zougagh, M. (2016). Corrosion protection of mild steel in hydrochloric acid solutions in presence of 5-(benzyloxy) indole: Monte Carlo simulation, weight loss and electrochemical studies. *Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7*(5), 2286–2294.
- Tighadouini, S., Jodeh, S., Radi, S., **Hanbali, G.**, et al. (2015). Synthesis of 1-(pyrrol-2-yl)imine modified silica as a new sorbent for removal of hexavalent chromium from water. *Applied Journal of Environmental Engineering Science, 1*(2), 66–84.

REFRENCES

1. Prof. Shehdeh Jodeh . An-Najah National University · Department of Chemistry, sjodeh@najah.edu, +970599 590 498, Research Gate: https://www.researchgate.net/profile/Shehdeh_Jodeh

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