

CURRICULUM VITAE

Personal details:

Name: Heba Ahmed Younes Khalifa

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Job: Assistant Professor - Faculty of Postgraduate for Advanced Science, Beni-Suef University

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[Google Scholar](#)

Education

1. PhD

2020- 2023

Environmental Sciences and Industrial Development, Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Egypt

2. M.Sc.

2017-2019

Environmental Sciences and Industrial Development, Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Egypt

3. B.Sc.

2008-2012

Special Chemistry Department, Faculty of Science, Fayoum University, Egypt

Work Experience

Assistant Professor

2023 - till now

Environmental Science and Industrial Development Department, Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Egypt

Teaching Assistant

2019-2022

Environmental Science and Industrial Development Department, Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Egypt

Demonstrator

2014 - 2019

Environmental Science and Industrial Development Department, Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Egypt

Research Interests

- Environmental Chemistry
- Treatment of Environmental Pollutants
- Nanotechnology in Environmental Applications
- Analytical Chemistry
- Membranes

Courses:

- Fundamentals of digital transformation
- One million Arab Coders program (Data analysis)

Conferences

- 1. The SUSWATEC Workshop in Cairo (February 18th - 20th, 2013)**
- 2. The 2nd International conference on (The Advanced Basic & applied sciences (ABAS-II) Ain sokhna -Eygpt, 2-4 April 2014.**
- 3. Organizer in 1st International Conference of Environmental Security and Global Climate Change (ESGCC-1), 10th -12th April 2016, PSAS, BSU, Egypt.**

4. **Organizer in the 4th International conference of advanced sciences (ICAS 4), 7th-10th November 2017, Hurghada, Egypt.**
5. **Organizer of the 2nd international conference of Environmental Science and Industrial Development Department, Faculty of Postgraduate Studies for Advanced Sciences, 22 April 2018, Beni-Suef University, Egypt.**

Workshops and seminars

1. **"Nanobiotechnology training course" from March 3rd to 5th, 2015, at the Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Egypt.**
2. **1st International workshop on "Recent advances in nanomaterials," 21-22 November 2015, Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Egypt.**
3. **"Scientific Thinking and Argumentation Skills for Problem Solving" on 22 December 2015, of the further domain "Academic skills" with in the DAAD Kairo Akademie.**
4. **" How to prepare research projects: writing steps and funding" 4 October 2016, Beni-Suef University.**
5. **"International Networking" on 18 December 2016, of the further domain "Advanced Training for Alumni"- the DAAD Kairo Akademie.**
6. **"How to convert your research results to commercial ideas workshop by NAWAH scientific group, 18 February 2017, Beni-Suef University.**
7. **"How to use Egyptian Knowledge Bank" 8-9 March 2017, Beni-Suef University.**
8. **Training course in " Education Programs and Courses Specifications and |Evaluation of Learning Outcomes for H.E. Institutes, 2-4 May 2017, National Authority for Quality Assurance and Accreditation of Education.**
9. **Workshop on Erasmus⁺ program and New trends in nanotechnology, 5 November 2017, Beni-Suef University.**

10. Intensive training course in "Integrity, transparency, and anti-corruption," 15&16, November 2022.
11. Intensive training course in "Student Evaluation and Examination Techniques," 20&21, November 2022.
12. Intensive training course in "Competitive Research Projects," 11&12, December, 2022.
13. Intensive training course in "Organizing Scientific Conferences," 20&21, December, 2022.
14. Certificate of Fundamentals of Digital Transformation (7 Modules), December, 2022.
15. Intensive training course in "Time and Meeting Management," 31 January&1 February 2023.
16. Workshop "Innovative Teaching Strategies", 12 & 13 February, 2023 -Beni Suef.
17. Workshop "Competitive Research Proposal Writing," on 16 December 2023- DAAD Kairo Akademie

Experiences:

- Environmental monitoring and assessment (sampling- Analysis of pollutants and interpretation)
- Experience in using different analytical techniques (e.g.
- UV-Vis spectrophotometer-liquid chromatography-tandem mass spectrometry)
- Preparation of nanomaterials and their characterization, especially layered double hydroxide and organic metal frameworks.
- Good handling of membrane preparation (Casting, electrospinning).

Projects

- Tailored enzymatic and Nano-based treatment of wastewater to detoxify heavy metals and degrade antibiotics, 250,000 \$, U.S. Agency for International Development
- Waste plastic to oil, 60,000 L.E, Beni-Suef University, Egypt.
- Detection and treatment of pharmaceutical residues in municipal wastewater, 50,000 L.E., Beni-Suef University, Egypt

Awards

- Best poster in the 4th International Conference on Advanced Applied Sciences, 7-10 November 2017, Hurghada–Egypt.

Publications

- 1- Younes, H.A., Khaled, R., Mahmoud, H.M., Nassar, H.F., Abdelrahman, M.M., El-Ela, F.I.A. and Taha, M., 2019. Computational and experimental studies on the efficient removal of diclofenac from water using ZnFe-layered double hydroxide as an environmentally benign absorbent. *Journal of the Taiwan Institute of Chemical Engineers*, 102, pp.297-311.
- 2- Younes, H.A., Mahmoud, H.M., Abdelrahman, M.M. and Nassar, H.F., 2019. Seasonal occurrence, removal efficiency and associated ecological risk assessment of three antibiotics in a municipal wastewater treatment plant in Egypt. *Environmental Nanotechnology, Monitoring & Management*, p.100239.
- 3- Kotp, A.A., Farghali, A.A., Amin, R.M., bdel Moaty, S.A., El-Deen, A.G., Gadelhak, Y.M., Younes, H.A., Syame, S.M. and Mahmoud, R.K., 2019. Green-synthesis of Ag nanoparticles and its composite with PVA nanofiber as a promising Cd²⁺ adsorbent and antimicrobial agent. *Journal of Environmental Chemical Engineering*, 7(2), p.102977.
- 4- Younes, H.A., Mahmoud, H.M., Abdelrahman, M.M. and Nassar, H.F., 2018, November. Detection, ecological risk assessment and removal efficiency of diclofenac and caffeine in wastewater treatment plant. In *IOP Conference Series: Materials Science and Engineering* (Vol. 464, No. 1, p. 012001). IOP Publishing.
- 5- Abdel Moaty, S.A., Mahmoud, R.K., Mohamed, N.A., Gaber, Y., Farghali, A.A., Abdel Wahed, M.S. and Younes, H.A., Synthesis and characterization of LDH-type anionic nanomaterials for the effective removal of doxycycline from aqueous media. *Water and Environment Journal*.

- 6- Younes, H. A., Taha, M., Mahmoud, R., Mahmoud, H. M., & Abdelhameed, R. M. (2022). High adsorption of sodium diclofenac on post-synthetic modified zirconium-based metal-organic frameworks: Experimental and theoretical studies. *Journal of Colloid and Interface Science*, 607, 334-346.
- 7- Younes, H. A., Taha, M., Khaled, R., Mahmoud, H. M., & Abdelhameed, R. M. (2023). Perovskite/metal-organic framework photocatalyst: A novel nominee for eco-friendly uptake of pharmaceuticals from wastewater. *Journal of Alloys and Compounds*, 930, 167322.
- 8- Abdelazeem, R., Younes, H. A., Eldin, Z. E., Allam, A. A., Rudayni, H. A., Othman, S. I., Farghali, A. A., Mahmoud, H. M., & Mahmoud, R. (2024). A Selective, Efficient, Facile, and Reusable Natural Clay/Metal Organic Framework as a Promising Adsorbent for the Removal of Drug Residue and Heavy Metal Ions. *Colloids and Interfaces*, 8(5), 50. <https://doi.org/10.3390/colloids8050050>.
- 9- Younes, H. A., & Shehata, N. (2025). Composition of Industrial Wastewater and Its Conventional Treatment Facility. *Wastewater to Resource Recovery: Applying the Circular Economy Toward Sustainable Development*, 167-188.
- 10- Mahmoud, A., Mahmoud, R., Salah, A. M., Kotp, A. A., & Younes, H. A. (2025). High-performance electrochemical sensor with a hollow iron oxide-modified carbon paste electrode (HIO/CPE) for selective clindamycin detection. *International Journal of Environmental Analytical Chemistry*, 1-18.
- 11- M. Mahgoub, S., A. Rudayni, H., M. Radallada, A., Younes, H. A., Allam, A., & Mahmoud, R. (2026). A Versatile Mixed-Mode HPLC Method for Sensitive Quantification of Polyvinylpyrrolidone in Pharmaceutical, Cosmetic, and Environmental Samples with a Greenness Assessment. *Journal of Pharmaceutical Innovation*, 21(1), 69.