

CV “Rasha A. Azzam”

Prof. Rasha A. Azzam

Professor of Organic Chemistry
Faculty of Science, Helwan University,

Education:

Ph.D. in Organic Chemistry, Catholic University of Leuven, Heverlee, Belgium

M.Sc. in Organic Chemistry, Helwan University, Helwan, Egypt.

B.Sc. in Chemistry, Helwan University, Helwan, Egypt

Honors, Fellowships and Scientific Missions:

- Head of Research Support Center, Helwan University, 2025.
- Visiting Professor at Department of Chemistry, Virginia Commonwealth University, 2024.
- Prince Mohamed Bin Fahd scientific award for the best scientific production serving community development within the framework of sustainable development goals 2023.
- Helwan University Outstanding Scientific Achievement Award in Basic and Applied Sciences Award 2023
- Helwan University Research Excellence Award, 2020.
- Best Master Thesis Awards for two master students under supervision, Helwan University. (Rasha Essam 2020) and (Heba Elboshi 2023).
- Research Excellence Awards for two master students under supervision, Helwan University. (Rokia Ramadan 2019) and (Rasha Essam 2020).
- Silver Medal, the Academy of Scientific Research Technology (ASRT), 2018.
- Outstanding Faculty Member Award, American University in Nigeria, 2007.
- Catholic University of Leuven Research Scholarship, 2001.
- Graduation with Class Honors, B.Sc. in Chemistry, Helwan University, 1993.

Experience:

2021 – present, **Professor of Organic Chemistry**, Faculty of Science, Helwan University, Ain-Helwan, Cairo, Egypt

2016 – 2021, **Associate Professor of Organic Chemistry**, Faculty of Science, Helwan University, Ain-Helwan, Cairo, Egypt

2010 - 2011, **Associate Professor of Organic Chemistry**, Faculty of Science, Taibah University, Almadinah Almunwarh, Kingdom of Saudi Arabia

2005 – 2009, **Assistant Professor of Organic Chemistry**, Founding Faculty and Cofounder of Petroleum Chemistry Program, School of Arts and Sciences, American University in Nigeria “*Under the Full Management of the American University, Washington, DC, USA*”

2005 – 2016, **Assistant Professor of Organic Chemistry**, Faculty of Science, Helwan University, Ain-Helwan, Cairo, Egypt
1997 – 2003, **Research Associate (on leave of absence from Helwan University)**, Department of Chemistry, Catholic University of Leuven, Belgium.
1996 – 2003, **Assistant Lecturer of Organic Chemistry**, Faculty of Science, Helwan University, Ain-Helwan, Cairo, Egypt
1993 – 1995, **Teaching Assistant**, Faculty of Science, Helwan University, Ain-Helwan, Cairo, Egypt

Research Activities

Research projects funding:

- I. “Design, Green Synthesis and Nanoformylation of New Pyrimidine-Based Derivatives as Efficient Antiviral Therapeutic Agents”, PI Rasha A. Azzam, Funded by Science, Technology & Innovation Funding (STDF), May 2025.
- II. “Green Methodology of Highly Functionalized Pyridinones: Synthesis, Biological and Fluorescence Characterizations” PI Rasha A. Azzam (Helwan University), Funded by Helwan University, Sep. 2024.
- III. “Synthesis of new sulfa derivatives under ultrasonic irradiation as potential anticancer/antimicrobial agents” PI Rasha A. Azzam (Helwan University), Funded by Helwan University, April 2022-2023.
- IV. “Development of new green technology based on nanoporous biodegradable polymeric membranes with in-situ impregnated catalytic metallic nanoparticles for industrial and sewage wastewater treatment”, Rasha A. Azzam (Helwan University) and Tarek M. Madkour (The American University in Cairo), Funded by Academy of Scientific Research Technology (ASRT), Jan. 2017.
- V. “Organic synthesis and characterization of thermoplastic elastomers based on aromatic and/or heterocyclic petrochemicals,” Rasha A. Azzam (American University of Yola), October 11th, (2006) \$3,000.
- VI. Catholic University of Leuven Research Scholarship, (2001-2003).

Publications:

Total number of publications: **62**; h-index (google scholar: **23**; Scopus: **22**)

Orcid number: 0000-0002-6807-2110

Scopus: ID: 8212614300

Google Scholar: <https://scholar.google.com/citations?user=MEJHdMAAAAJ&hl=en>

Textbooks:

- Galal H Elgemeie, **Rasha A Azzam**, et al., “N-Sulfonated-N-Heterocycles: Synthesis, Chemistry, and Biological Applications,” 1st edition, **2022**, Elsevier publishers.

Teaching Experience:

Teaching:

- a) *General Chemistry I & II Undergraduate Course.*
- b) *Introduction to Chemistry for non-science majors.*
- c) *Organic Chemistry I, Undergraduate Course.*
- d) *Organic Chemistry II, Undergraduate Course.*
- e) *Green Chemistry, Undergraduate Course.*
- f) *Natural products, Undergraduate Course.*
- g) *Organic Spectroscopy, Undergraduate Course.*
- h) *Research Projects, Research Project Course.*
- i) *Organic Spectroscopy, Post Graduate-level Course*

Training Seminars, workshops and skills development:

- a) *Organize workshop on “AI Applications in Scientific Research: Enhancing Academic Writing and Navigating Regulations”, Helwan University, 2025*
- b) *Organize workshop on “Bridging Art and Science: Biorender & Bioart in Scientific Illustrations”, Helwan University, 2025*
- c) *Workshop on A strategic study on basic sciences and the dangers of marginalizing them” Zewail University, 2024*
- d) *Training workshop on “The 2nd recent advances in drug discovery workshop”, Faculty of Pharmacy, Helwan University, 2018.*
- e) *Training workshop on “Research projects & funding opportunities”, Faculty of Science, Helwan University, 2017.*
- f) *Training sessions on “Fourier-Transform Infra-Red techniques (FTIR): usage, interpretation and equipment maintenance”, Winelight Analytical Systems, Yola, 2006.*
- g) *Workshop on “writing across the curriculum”, AUN, Yola, Yola, 2005.*
- h) *Training Course on “microsynthesis of pharmaceuticals and organic materials”, Janssen Pharmaceuticals, Johnson & Johnson subsidiary, Beerse, Belgium, 2003.*
- i) *NMR (Proton, ¹³C and 2D-NMR) training seminars, Catholic University of Leuven, Leuven, Belgium, Seminars by Prof. Suzane Toppet, 2001.*
- j) *Mass spectrometry (GC/MS) training sessions, Catholic University of Leuven, Leuven, Belgium, Dr. Reni De Boer, 2000.*

University Development

- 1. Member of the Organizing Committee for the 1st International Science Conference, Oct. 2023, Helwan University.
- 2. Member of the “Hub for Creativity of Scientific Research”, Helwan University, 2023-present.
- 3. Member of Chemistry Program Development Curriculum Committee (2019-till present), Faculty of Science, Helwan University.
- 4. Thesis supervisor of PhD and MSc students, Faculty of Science, Helwan University.
- 5. Academic advisor, Chemistry Special Program, Helwan University.

6. Chairman of the official grading control, Faculty of Science, Helwan University, (2018).
7. Member of the accreditation committee, Faculty of Science, Helwan University, with successful nation-wide accreditations of the chemistry program, 2018.
8. Member of the preparatory committee for the NUC accreditation in charge of the Petroleum Chemistry program, 2007.
9. Chair of the Textbooks, Supplies and Equipment Committee, School of Arts & Sciences, AUN.
10. Co-founder of the Petroleum Chemistry program, School of Arts & Sciences, AUN.
11. Member, Petroleum Chemistry Program Development Curriculum Committee, AUN.
12. Chemistry Laboratories Coordinator and Supervisor-in-Charge, AUN, 2005-2006.
13. Academic Advisor, Petroleum Chemistry Program, AUN.
14. Chair, College Senate-Nomination and Election Committee, AUN.
15. Member, AUN Student Orientation ceremony.
16. Training of new Ph.D. research students, Catholic University of Leuven, Belgium.
17. Laboratories Committee Coordinator, College of Sciences, Helwan University.

Community Service

1. Member in Egyptian Society for Basic Sciences, Egypt.
2. Review Editor on the Editorial Board of Organic Chemistry (specialty section of Frontiers in Chemistry).
3. Editor, Journal of Chemistry, Hindawi Publishing
4. Editor, The Scientific World Journal, Hindawi Publishing.
5. Grant evaluator, the Fulbright binational scholarship program.
6. Member, AUN Community School Advisory Board.
7. Organizing and Instructions of various lab sessions for AUN Community School.
8. Participation and organization of the Training workshop for High School Teachers, Helwan University.