



Abdelhamid Ahmed El-Sayed Soliman

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Gender: Male **Date of birth:** 18 Mar 1998 **Nationality:** Egyptian

ABOUT ME

I am a dynamic individual with a profound passion for chemistry and a deep curiosity for understanding the molecular world. I am dedicated to advancing scientific knowledge and always ready to embrace new opportunities and challenges with a strong ambition to achieve success.

WORK EXPERIENCE

[4 Dec 2022 – Current]

University teaching assistant

Chemistry department, Faculty of Science, Assiut University <https://www.aun.edu.eg/main/>

City: Assiut | **Country:** Egypt | **Email address:** abobark70@aun.edu.eg

- 1.To demonstrate use of practical equipment, experiments, exercises, and techniques and/or processes that may form an element of an undergraduate course of study in line with specific learning objectives.
- 2.To oversee students carrying out such experiments, exercises, etc and offer assistance as appropriate.
- 3.Responsible for the day-to-day operation of the laboratory.
- 4.To be aware of any health and safety implications of procedures and take action to maintain a safe environment, raising any concerns with the course organizer or work supervisor.
- 5.To assist/give guidance, where required, to students who are carrying out practical exercises, etc
- 6.Where required, provide feedback on student performance and any issues arising in the course of the demonstration, to the course organizer/work supervisor.
- 7.Where required, to assist in marking student tests set by the course organizer using defined marking criteria where marking requires little or no interpretation.
- 8.Maintain student attendance records.

[15 Mar 2023 – Current]

University research assistant

Chemistry department, Faculty of Science, Assiut University <https://www.aun.edu.eg/main/>

City: Assiut | **Country:** Egypt | **Email address:** abobark70@aun.edu.eg

1. Experimental Design and Planning: Collaborate with researchers to design experiments, develop research protocols, and organize experimental workflows for efficient resource and time use.

2. Synthesis of Organic Compounds: Conduct the synthesis of organic molecules, optimizing synthetic routes and reaction conditions.
3. Characterization of Compounds: Use analytical techniques (NMR, IR, MS, chromatography) to characterize synthesized compounds and confirm their structure and purity.
4. Laboratory Management: Maintain an organized and safe laboratory environment, including proper storage and disposal of chemicals and maintenance of equipment.
5. Data Collection and Analysis: Record experimental procedures and results accurately, analyze data, and prepare detailed reports summarizing findings.
6. Literature Review and Research: Conduct literature reviews to stay updated on current trends in organic chemistry and apply relevant findings to research projects.

[10 Oct 2021 – 1 Dec 2022]

Soldier (Mandatory)

Egyptian Armed Forces

Country: Egypt

EDUCATION AND TRAINING

[1 Sep 2017 – 12 Jun 2021]

BSc in Chemistry

Faculty of Science, Assiut University, (Assiut) Egypt <https://www.aun.edu.eg/science/ar/home-2>

Field(s) of study: Chemistry (completed in English Language) | **Final grade:** Excellent with honor, CGPA 3.85\4.00 (Top class student)

[1 Jul 2020 – 16 Jul 2020]

Training on the use of chemicals for water treatment

Company water and sanitation in Assiut <https://ascww.org>

City: Assiut | **Country:** Egypt |

PUBLICATIONS

[2024]

Synthesis, Crystal Structure, Hirshfeld Surface Analysis, and Computational Approach of a New Pyrazolo[3,4-g]isoquinoline Derivative as Potent against Leucine-Rich Repeat Kinase 2 (LRRK2)

Bakhite, Etify A., Shaaban Kamel Mohamed, Chin-Hung Lai, Karthikeyan Subramani, Islam S. Marae, Suzan Abuelhassan, **Abdelhamid AE Soliman** et al. "Synthesis, Crystal Structure, Hirshfeld Surface Analysis, and Computational Approach of a New Pyrazolo [3, 4-g] isoquinoline Derivative as Potent against Leucine-Rich Repeat Kinase 2 (LRRK2)." *ACS Omega* (2024).

URL: <https://pubs.acs.org/doi/full/10.1021/acsomega.4c03208>

[2024]

Synthesis, single crystal investigations, and quantum computational investigation of a new 1,1'-(3,5-dihydroxy-3-methyl-2'-nitro-1,2,3,4-tetrahydro-[1,1'-biphenyl]-2,6-diyl)bis(ethan-1-one) as a potent inhibitor for Cytochrome P450 3A4

Mohamed, Shaaban K., Chin-Hung Lai, Subramani Karthikeyan, **Abdelhamid AE Soliman**, Shaban M. Radwan, Islam S. Marae, Remon M. Zaki et al. "Synthesis, single crystal investigations, and quantum computational investigation of a new 1, 1'-(3, 5-dihydroxy-3-methyl-2'-nitro-1, 2, 3, 4-tetrahydro-[1, 1'-biphenyl]-2, 6-diyl) bis (ethan-1-one) as a potent inhibitor for Cytochrome P450 3A4." *Journal of Molecular Structure* (2024): 138895.

URL: <https://www.sciencedirect.com/science/article/pii/S0022286024014133>

DIGITAL SKILLS

My Digital Skills

Research and analytical skills | Mendeley; literature and citation management | data processing and analysis software: Origin (advanced) | MS Office; CHEMDRAW; MESTRENOVA | Gaussian View 09 | Good listener and communicator | Team-work oriented | Responsibility | Browsing the Internet (experienced) | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Video Conferencing (Zoom, Teams, Skype, Webex) - Advanced | LinkedIn

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

English

LISTENING B2 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

WORKSHOPS

X-ray Diffraction Method, Applications, and Results Refinement

-Theoretical basis, practical applications, peak indexing and calculation of lattice parameters

-Introduction to and Fundamentals of Rietveld refinement

NETWORKS AND MEMBERSHIPS

[1 Sep 2018 – 15 Jun 2019] **Social Member** Faculty Of Science, students Union