



## Curriculum Vitae

Reham O. El-Zawawy

### PERSONAL INFORMATION:

Date and City of Birth: 30-10-1988, Alexandria, Egypt.  
Nationality : Egyptian.  
Home Address : 22 st., Abou Rafea, Kafr Abdou, Alexandria, Egypt.  
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Work Address : Chemistry Department, Faculty of Science, Damanhour University.  
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Marital Status : Married to Alaa Z. Omar Associate Professor at Chemistry Department (Organic Division), Faculty of Science, Alexandria University, Alexandria, Egypt  
Occupation : Assistant Professor at Chemistry Department, Faculty of Science, Damanhour University, Damanhour, Egypt.

### ACADEMIC BACKGROUND:

#### Faculty of Science, Alexandria University, Egypt

- **Ph.D.** in Inorganic Chemistry from Chemistry Department 02/2021  
Dissertation Title: "Coordination Chemistry and Applications of Some Biological Active Drugs"  
Thesis Advisor: Prof. Mamdouh Saad Masoud
- **M.Sc.** in Inorganic Chemistry from Chemistry Department 11/2015  
Thesis Title: "Physico-Chemical Properties of Some Heterocyclic Compounds and Their Complexes"  
Thesis Advisor: Prof. Mamdouh Saad Masoud
- **B.Sc.** in Chemistry from Chemistry Department (graduated in excellence with honors) 06/2010

### EMPLOYMENT:

#### Faculty of Science, Damanhour University, Egypt

- Assistant Professor 05/2021-till now
- Teaching Assistant 12/2015-05/2021
- Demonstrator 05/2011-11/2015

**TEACHING EXPERIENCE:**

- General inorganic chemistry.
- Analytical chemistry.
- Instrumental Chemistry 1.
- Instrumental Chemistry 2.
- Solid State Chemistry.
- Nuclear Chemistry.
- Elementary Block Elements.
- Environmental Chemistry.

**Teaching tools**

I deliver my lectures and assess the students using the following tools:

- E-learning system
  - PowerPoint lecture (with animation, videos, and simulations)
  - Live demonstration
  - Hands out and lecture captures
- **Also, I have been general supervisor for the following practical courses:**
- Practical inorganic chemistry
  - Practical analytical chemistry 1
  - Practical analytical chemistry 2
- And I have been supervisor for undergraduate students (10 students per year) in their graduation projects.

**SERVICES:**

In my career, I served on a number of different committees such as:

- Time table committee.
- Undergraduate control committee

**RESEARCH INTERESTS:**

- Synthesis of inorganic complexes and study their biological application
- Theoretical studies including both DFT and Docking applications.

**PUBLICATIONS:**

1. “Structural Studies and Biological Activity of Thiobarbituric Acid Complexes” Mamdouh S. Masoud, Ismail M. Abed and **Reham O. El-Zawawy**, Journal of Pharmaceutical and Medicinal Chemistry, 4 (2), 55-65 (2018).
2. “Synthesis, structural, DFT, solid state and antimicrobial studies of some new biologically active cefoxitin complexes” **Reham O. El-Zawawy**, Mamdouh S. Masoud, Alaa E. Ali and Mona R. Mosa. Inorganic Chemistry Communications 121, 108218 (2020).  
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3. “Synthesis, Structural, DFT, and Antimicrobial Studies of Some Cefprozil Complexes” **Reham O. El-Zawawy**, Mamdouh S. Masoud, Alaa E. Ali and Omar, A. Z. Russian Journal of General Chemistry, 11 (2023), 2960-2972.
4. “Synthesis, characterization, and dyeing performance of Novel Bisazo disperse dyes: A combined spectroscopic and computational study” Alshaye, Najla A. Omar, Alaa Z., Elhag, Mohammed, Hamed, Ezzat A., Ahmed, Hoda A., Alharbi, Nuha S., El-Atawy, Mohamed A., **El-Zawawy, Reham O.**, El-Rahman, Mohamed A. Journal of Molecular Structure, 2025, 1319, 139582.
5. “Synthesis, DFT, and in silico biological evaluation of chalcone bearing pyrazoline ring against Helicobacter pylori receptors” Najla A. Alshaye, Nuha Salamah Alharbi, Mohamed A. El-Atawy, **Reham O. El-Zawawy**, Ezzat A. Hamed, Mohammed Elhag, Hoda A. Ahmed, Alaa Z. Omar, Heliyon, 2024, 10(14), e34540.
6. “Spectroscopic, Solid State, DFT and Antimicrobial Studies of New Synthesized Oxytetracycline Complexes” **Reham O. El-Zawawy**, Mamdouh S. Masoud, Alaa E. Ali and Mona R. Mosa. Russian Journal of Physical Chemistry, 2025.
7. “Pyrazole-pyridine-carbohydrazone hybrids as promising antioxidants: synthesis, characterization, DFT, ADME, and molecular docking studies on cyclooxygenase-2” **El-Zawawy, Reham O.**, Omar, Alaa Z., El-Atawy, Mohamed A., Alharbi, Hussam Y., Aljohani, Majed S., Ahmad, Mohammad, Elhag, Mohammed, Journal of Molecular Structure, 2025, 1337, 142201.
8. “Synthesis, DFT Analysis, and Dyeing Performance of 4,4’-Dihydroxy-3- Substituted Azobenzene Disperse Dyes with Comparative Evaluation of Aqueous and DMF-Based Application Systems” Mohamed A. El-Rahman, Mai S. Alsubaie, Mohamed A. El-Atawy, Hussam Y. Alharbi, Majed S. Aljohani, Saad Alrashdi, Alaa Z. Omar, Ezzat A. Hamed, **Reham O. El-Zawawy**. Journal of Fluorescence, 2026.

References are available upon request