**Islam Salem Marae, B.Sc.**

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**Education**

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| 2018 – now | **Master of Science (Organic Chemistry)**  Assiut University, Assiut, Egypt  **Dissertation:**” Synthesis reaction, characterization and biological activity of new poly substituted 5,6,7,8-tetrahydroisoquinolines”  **Aim:** The work aimed to synthesis of fluorescent isoquinoline compounds, determine the crystal structure, and explore anticancer activity of these compounds.  **Supervisor:** Prof. Etify A. Bakhite, Professor of organic chemistry, Faculty of Science, Assiut University, Egypt. |
| 2012 – 2016 | **Bachelor of Science** **(Chemistry)**  Faculty of Science, Assiut University, Assiut, Egypt. |

**Professional Experience**

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| 2018 – Present | **Instructor**  Chemistry Department, Faculty of Science, Assiut University, Egypt  Duties: Teaching activities in various chemistry labs including organic synthesis, spectroscopy, chromatography, stereochemistry, and computational chemistry. |

**Research Interests**

* Synthetic organic chemistry.
* Kinetic and mechanistic study of chemical reactions.
* Organocatalytic design, applications, and diversity.
* Crystal structure of organic torsion helicoids and its optoelectronic applications.
* Synthesis of pincer complexes and its application in catalysis.
* Photocatalysis and its applications in organic synthesis, water remediation, H2 production, and CO2 reduction.
* Ultrafast Laser Spectroscopy.

**Research Experience**

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| **ORGANIC SYNTHESIS** | * Adept in the synthesis and purification of organic compounds. |
| **INSTRUMENTAL SKILLS& DATA INTERPRETATION** | * Skilled at using different techniques as well as mastering data analysis and interpretation:   + Chromatography (TLC, CC, GC, HPLC, and GC/MS)   + Spectroscopic Analyses (UV, FTIR, NMR, and Mass)   + DFT calculations   + Interpretation of X-ray single crystal data. |

**Publications**

1. Synthesis and characterization of new quinazolinylmethylsulfanylpyridines, quinazolinylthieno[2,3-b]pyridines and pyrido[3’’,2’’:4’,5’] thieno[3’,2’:4,5]pyrimido[6,1-b]quinazolines. DOI:10.24820/ark.5550190.p011.094  
   Yasser A. El-Ossaily, Elham A. Al-Taifi, Etify A. Bakhite, **Islam S. Marae**, and Remon M. Zakic.

**Conferences**

1. Synthesis, Crystal Structure, Fluorescence Properties and Anti-Cancer Activities of Some New Poly Substituted 5,6,7,8-Tetrahydroisoquinolines.  
   Assiut University 12th International Pharmaceutical Sciences Conference Faculty of Pharmacy, Assiut, November 3th& 4th, 2020.  
   **Islam S. Marae**, Etify A. Bakhite, Mohamed S. Abbady, Osama S. Mustafa.
2. Synthesis of Some New Poly Substituted sulfanyl -tetrahydroisoquinolines and their isomeric tetrahydrothieno[2,3-c]isoquinolines with anticipated biological activities.   
   At the 3rd International Conference on Aplied Chemistry-ICAC 2019 23rd-26th November 2019, Hurghada, Egypt.   
   Etify A. Bakhite, Mohammed S. Abbady, Osama Sh. Mostafa, Islam S. Marae