

Curriculum vitae

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❖ Education

2016-2021 Ph.D., Materials Science and Engineering, National Chiao Tung University, Taiwan.

2012-2015 M.Sc., Organic Chemistry, Faculty of Science, Assiut University, Egypt.

2007-2011 B.Sc., (Chemistry), Faculty of Science, Assiut University, Egypt.

❖ Work Experience

Sept. 2021 – present Work as **Assistant Professor** at Dept. of Chemistry, Faculty of Science, Assiut University, Egypt.

Feb. 2021 – Jul. 2021 Worked as **Researcher** at Industrial Technology Research Institute (ITRI), Hsinchu, Taiwan.

Dec 2015 – Sept. 2016 Worked as **Assistant Lecturer** at Dept. of Chemistry, Faculty of Science, Assiut University, Egypt.

Feb. 2012 – Nov.-2015 Worked as **Demonstrator** at Dept. of Chemistry, Faculty of Science, Assiut University, Egypt.

❖ Awards and Fellowships

- International Student Scholarship (NCTU) **Sept. 2016 – Sept. 2020**

- Living Grant for International Graduate Students Scholarship, **CTCI Foundation Science and Technology-2019.**
- Papers reward for excellent research results of students (NCTU)
 - 1- Journal of Materials Chemistry B (I.F. 5.3)
 - 2- Soft Matter (I.F. 3.1).

❖ **Professional Expertise**

- Synthesis of organic molecules from milligram to multi-gram scale.
- Expertise in Linear and convergent syntheses of organic compounds to isolate and characterize the materials by HPLC, ^1H NMR, ^{13}C NMR, LC-MS and FT-IR spectroscopic techniques.
- Very professional in Solid phase peptide syntheses (SPPS) up to six peptides.
- Preparation of hydrogels and organogels.
- Capable of handling collaborative / independent work and trouble shooting.

❖ **Research Skills**

- Synthesis of organic molecules by employing different methods such as linear, exploratory, scaffolds and library synthetic methods.
- Capability to isolate the compounds by using methods such as Chromatographic, Solvent extraction, Distillations, Recrystallization methods.
- Multi-step synthesis of small and intermediate sized organic molecules from milligram to multi-gram scales and their characterization.
- Literature search using SciFinder, Reaxys and Bilestine database for the designed target molecules

❖ **Technical Skills**

- Good Command on Journal (literature survey) search through **SCI-FINDER**, REAXYS, BILESTEIN, CROSSFIRE COMMANDER.
- CHEM-DRAW, ISIS-DRAW, ^1D NMR Processor, Origin, Photoshop, Corel draw, Power point Presentation.

❖ Recent Publications

1. *The crown ether size and stereochemistry affect the self-assembly, hydrogelation, and cellular interactions of crown ether/peptide conjugates.*

Abdelreheem Abdelfatah Saddik, Mohiuddin Mohammed and Hsin-Chieh Lin*, *J. Mater. Chem B*, **2020**, 8, 9961-9970. (Impact factor: 5.36)

2. *Effects of fluoro substitutions and electrostatic interactions on the self-assembled structures and hydrogelation of tripeptides: tuning the mechanical properties of co-assembled hydrogels.*

Abdelreheem Abdelfatah Saddik, Rajan Deepan Chakravarthy, Mohiuddin Mohammed and Hsin-Chieh Lin*, *Soft Matter*, **2020**, 16, 10143-10150. (Impact factor: 3.14)

3. *Synthesis, Antimicrobial, and Anticancer Activities of a New Series of Thieno[2,3- d] Pyrimidine Derivatives: Synthesis of New Series from Thieno[2,3-d]pyrimidine and Study the Antimicrobial and Anticancer Activities for Some Compounds.*

Abdelreheem Abdelfatah Saddik, * Adel Mohamed Kamal El-Dean, Waleed Ahmed El-Said, Khairy Mohamed Hassan and Mohamed Saad Abbady, *J. Heterocycl. Chem.*, **2018**, **55**, 2111-2122 (Impact factor: 1.484)

4-SYNTHESIS OF THIENOPYRIMIDINE DERIVATIVES STARTING FROM THIOPHENE AND PYRIMIDINE RINGS.

Abdelreheem A. Saddik, * Adel M. Kamal El-Dean, Khairy M. Hassan, and Mohamed S. Abbady-*European Chemical Bulletin*, **2017**, 6(6), 246-257.

5-Synthesis and Cytotoxicity of Some Thieno[2,3-d]pyrimidine Derivatives.

Abdelreheem A. Saddik, *Adel M. Kamal El-Dean, Gamal H. El-Sokary, Khairy M. Hassan, Mohamed S. Abbady, Ismail A. Ismail and Saber H. Saber, *J. Chin. Chem. Soc.*, **2017**, 64(1), 87-93 (Impact factor: 1.554)

6- SYNTHESIS OF NEW MERCAPTOPYRIMIDINES AND THIENOPYRIMIDINES

Abdelreheem A. Saddik, * Khairy M. Hassan, Adel M. Kamal El-Dean and Mohamed S. Abbady, *European Chemical Bulletin*, **2015**, 4(9), 436-441.

❖ Conference Papers and Presentations

- 1- **Abdelreheem A. Saddik**, Mohammed Mohiuddin and Hsin-Chieh Lin. "Crown Ether Size and Stereochemistry Affect the Self-Assembly, Hydrogelation, and Cellular Interactions of Crown Ether/Peptide Conjugates", 15th Chemistry Conference for Young Scientists (Chem CYS-2020). February 19-21, 2020 Blankenberge, (Belgium 2020).

- 2- **Abdelreheem A. Saddik** and Hsin-Chieh Lin. "Synthesis, characterization, supramolecular hydrogelation of crown ether-peptides", 3rd International conference on new horizons in basic and applied science (ICNHBAS-2017). August 5-7, 2017 Hurghada, **(Egypt 2017)**.
- 3- **Abdelreheem A. Saddik**, Khairy M. Hassan, Adel M. Kamal El-Dean, and Mohamed S. Abbady "Synthesis of Novel Thienopyrimidine Derivatives ", 13th IBN SINA International Conference on Pure and Applied Heterocyclic Chemistry (13th IbnSina). February 14 to 17, 2015 Hurghada, **(Egypt 2015)**.
- 4- **Abdelreheem A. Saddik**, Khairy M. Hassan and Adel M. Kamal El-Dean. " Synthesis of new mercaptopyrimidines and thienopyrimidines ", 8-th Eurasian Meeting on Heterocyclic Chemistry (EAMHC-2014) September 20-24, 2014 Tbilisi, **(Georgia 2014)**
- 5- Adel M. Kamal El-Dean, Remon M. Zaki, Ahmed A. Geies, Shaban M. Radwan and **Abdelreheem A. Saddik**. "Conversion of different agrocellulosic wastes into renewable energy", 2nd International Conference on Advanced Basic & Applied Sciences, April, 2014, Sokhna, **(Egypt 2014)**.

❖ References

1. Dr. Hsin Chieh Lin (Professor)

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2. Dr. Adel Mohamed Kamal El-Dean (Professor)

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