

# Mai Mamdouh Mohamed kamal

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## EDUCATION

❖ **Doctor of Philosophy Degree in Chemical Engineering, 2016** entitled "**graft copolymerization of chitosan and its application in wastewater treatment**", Faculty of Engineering, Alexandria University.

- The study showed that grafting of chitosan (as chemical modification) is efficient for removal of heavy metals as copper and chromium hexavalent ions and also can be used for treating other different heavy metals.

❖ **Master Degree in Chemical Engineering, 2008** entitled "**Oil spills cleanup by using agriculture wastes**", Faculty of Engineering, Alexandria University.

- The study showed that rice straw can be used in different forms and can be applied for oil spill cleanup from the sea surface.

❖ **Bachelor of Engineering in chemical Engineering, 2004**, Faculty of Engineering, Elminia University, Chemical Engineering Department.

- Project: Anodizing of aluminum slits.

## EMPLOYMENT

**(2005 –2007)** Assistant Lecturer, Faculty of Engineering, Alexandria University, Chemical Engineering Department, Alexandria University, Alexandria, Egypt.

**(2007- 2008)** Assistant Lecturer, Arab Academy for Science, Technology and Maritime Transport, Applied & Basic Sciences Department, Alexandria, Egypt.

**(2008- 2015)** Teaching Assistant, Arab Academy for Science, Technology and Maritime Transport, Applied & Basic Sciences Department, Alexandria, Egypt.

**(2017- 2018)** Assistant Professor, Egyptian Academy of Engineering and Advanced Technology, Chemical Engineering Department, Ministry of Military Production, Cairo, Egypt.

**(2016- until now)** Assistant Professor, Arab Academy for Science, Technology and Maritime Transport, Applied & Basic Sciences Department, Egypt. **(Main Campus Alexandria, Alamian Campus and Ganoub Elwadi Campus)**

**(2021-until now)** Assistant Professor, Tanta Higher Institute for Engineering and Technology, chemical engineering department, Tanta, Egypt.

**(2021 – until now)** Assistant Professor, Faculty of Engineering, Rojava University, Chemical and Petrochemical Engineering Department, Syria.

### Teaching Experience

**From 2007 -until now** Assistant Lecturer, Teaching Assistant and Assistant Professor Applied & Basic Sciences Department, part time in Arab Academy for Science, Technology and Maritime Transport

**-from 2017 to 2018** Assistant Professor, Egyptian Academy of Engineering and Advanced Technology, Chemical Engineering Department, full time Ministry of Military Production, Cairo, Egypt.

**-from 2021-until now** Assistant Professor, full time in Tanta Higher Institute for Engineering and Technology, chemical engineering department, Tanta, Egypt.

**-from 2021 – until now** Assistant Professor, part time (online) for pre-master's students in Faculty of Engineering, Rojava University, Chemical and Petrochemical Engineering Department, Syria.

**-From 2/2005 until 7/2005** assistant Lecturer in chemical engineering department, - faculty of engineering, Alexandria university Part time in -Alexandria university at 2/2005.

### Teaching courses:

General Chemistry, Inorganic Chemistry, Analytical Chemistry, advanced instrumental analysis, Material Science and Engineering, Multi Stages Separation, Mechanical Unit Operations, principles of Corrosion, Water Treatment, Petroleum Refinery, Petrochemical Industries.

## **PUBLICATION**

### Papers

1. **Mai Sheta** , Basant Yousry, Ahmed Zattot , Nahla A. Taha " **Optimization of Chitosan Surface Response Methodology (Natural and Commercial) Used for Chromium Ion Removal from Wastewater across Different Parameters**", Sustainability , 13, 13494 (2021)

2. Manal M. Khowdiary, Nahla A. Taha , Aminah A. Barqawi , Ahmed A. Elhenawy, **Mai Sheta** , Nazly Hassan " **Theoretical and experimental evaluation of the anticorrosion properties of new Coumarin's derivatives** " , Alexandria Engineering Journal, Available online 31 December (2021).

3. **Mai mamdouh sheta**, N.S.Yousef, " **Graft copolymerization of methyl acrylate on chitosan** ", International Journal of Scientific & Engineering Research, Volume 6, Issue 3, March-2015

### **ACADEMIC LEADERSHIP (SUPERVISION)**

1. MSc in "Removal of Heavy Metals from Wastewater Using Mixture of Zizphus Spina and Alovera" Petrochemical Engineering Department, Faculty of Engineering, Rojava University. (not finished)
2. Graduation projects "preparation of metal organic frame (MOF) and its application in petroleum oil and wastewater treatment (2022-2023)
3. Graduation project "Electrocoagulation" (2017-2018)

### **RESEARCH AREA AND PRESENT WORK**

- Industrial Waste water treatment using new prepared materials
- Water treatment
- Desalination
- Corrosion inhibitors
- Treatment of petroleum oil (desulphurization, denitrogenation and water content)
- Nano materials (powder and thin film)and their applications in various fields
- Preparation of metal organic frame (MOF) and its application in various Fields

### **SCIENTIFIC ACTIVITIES**

-Attending on "Research Symposium on Biomedical Applications of Fluid Mechanics", At Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt, 13 September 2018.

- Attending on "The Third International Conference for Future Studies and Risk Management" (ICFSRM 2022) Climate Change, Challenge and Threats, At Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt, 2-3 December 2022.

### **WORKSHOPS**

Attending workshop on "influence of the electromagnetic energy of the cellular devices on a multi-layer human head in context of high-order thermal lagging heat conduction model Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt, 24 November 2022.

## **PERSONAL DATA**

**Date of birth: 17<sup>th</sup> April 1982.**

**Place of birth: Alexandria.**

**Marital Status: Married**

**Nationality: Egyptian**

## **LANGUAGES**

**English: Very good**

**Arabic: is the mother tongue.**

**Local Toefl program**

**IELTS certification (International English Language Testing System)**

## **PERSONAL SKILLS**

- 1. Member in the Syndicate for Engineers.**
- 2. Good experience in training students in the field of analysis techniques.**
- 3. Good experience in preparing and establishing labs.**
- 4. Good experience in computer software**

## **TRAINING**

- 1- Alexandria Petroleum Company  
Boilers units, 2001**
- 2- Alexandria Iron & Steel National company  
Boilers and boiler installation  
Distillation units  
Steel treatment, 2002**

## **REFERENCES**

### **1-Nahla Ahmed Taha**

Professor, Modeling and simulation Department, Institute of New Materials and Advanced Technologies, City of Scientific Research and Technological Applications, Alex, Egypt. Tel: 002- 0100 5289679. E-mail: [nahlataha\\_1982@yahoo.com](mailto:nahlataha_1982@yahoo.com)

### **2- Ahmed Amin Zaatot**

Professor, Chemical Engineering Department Faculty of Engineering, Alexandria University, Alexandria, Egypt. Tel: 002- 01223379925