

Mahmoud A. Hussein

Subjects: Polymer Science

Contributor: Mahmoud A. Hussein

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Basic Information



Name: Mahmoud A. Hussein
(Sep 1974–)

Birth Location:	Egypt
Title:	Professor of Polymer Chemistry
Affiliation:	King Abdulaziz University
Honor:	Unknown

1. Introduction

M.A. Hussein is a professor of Polymer Chemistry, Polymer Chemistry Lab, Chemistry Department, Faculty of Science, Assiut University (AU), Egypt. He obtained his PhD in Organic Polymer Synthesis from Assiut University, Egypt in 2007. He got a position at Chemistry Department, King Abdulaziz University (KAU), Jeddah, Saudi Arabia from 2010 – till now. He got a postdoctoral position in the University of Nice Sophia Antipolis, France and University Sains Malaysia, Malaysia. He visited the school of Industrial technology, University Sains Malaysia and Faculty of Engineering, University of Porto (UP) as visiting researcher. He published +185 ISI papers and numerous number of conference papers (posters and oral). His research is designed to develop synthesized polymers for professional careers in polymer research as well as in the manufacturing industries. We try to cover the modern aspects of polymers, including: polymer synthesis, physics, properties, characterization and processing, with a number of up-dated facilities for modern research. Moreover, we try to enter the advanced technology related to functional polymer, high performance polymer, engineering plastics, polymer composites, etc. to solve the industrial problems in numerous fields.

- Synthesis, characterization and application of various types of polymers that can be applied for radiation application.
- Synthesis and structural elucidation of various types of polymers that can be used as surface coatings.
- Liquid crystalline properties of polymers.
- Composites and Nanocomposites for variable applications
- Organic / Inorganic polymer composite materials.
- Corrosion Inhibition behaviors of organic polymers.
- Electropolymerization and electrodeposition.
- Natural polymers
- Photofabrication of Bio-fiber Composites through Ultra Violet Curing
- Natural fiber reinforced Polymer composites
- Lingo-cellulosic based polymer composite materials
- High performance / conventional composite materials
- Chemical modification of fiber for enhancing its properties.
- Resin technology

2. Researches and Findings

He is participating actively as a member on several number of international & national projects. He is supervising a number of master and PhD students (22). He attended several international conferences and workshops on Polymer Chemistry, Material Science, and Organic Chemistry. Additionally, participated on the organization of national & international conferences and workshops on Material Science, Organic Chemistry and their Applications. Prof. Hussein attended the following training courses in the "Faculty and leadership Development Centers in Assiut University (AU), Cairo University (CU) and Alexandria University (AlexU) " and Deanship of e-Learning & Distance Education at King Abdulaziz University (KAU):

- ***The ethics of the profession*** (AU, April, 11-13, 2005).
- ***Thinking skills*** (AU, March, 19-21, 2006).
- ***Lawful of aspects in universities*** (AU, June, 17-19, 2006).
- ***New trends in teaching*** (AU, June, 24-26, 2006).
- ***Preparing the scientific papers and their international publishing*** (AU, December, 27- 28, 2006).
- ***Teaching with technology*** (AU, January, 22-24, 2007).
- ***How to complete for a research fund*** (AU, November, 10-12, 2007).
- ***International publishing of research*** (AU, November, 24-26, 2007).
- ***Quality standers in teaching process*** (AU, February, 16-18, 2008).
- ***Credit hour system*** (AU, February, 16-18, 2008).
- ***Examination systems and students evaluation*** (AU, February, 26-28, 2008).
- ***Effective presentation*** (AU, April, 19-21, 2008).
- ***Fundamentals of E-learning Management System-Blackboard*** (KAU, January, 22, 2019).
- ***Employment of E-services in E-learning*** (KAU, March, 20, 2019).
- ***Interactive Learning Environments using the Edmodo Platform*** (KAU, January, 22, 2019).
- ***Graphic Design in Digital Courses*** (KAU, March, 26, 2019).
- ***Conference Organization*** (CU, August, 5,6, 2019).
- ***Effective Teaching Skills*** (CU, August, 7,8, 2019).
- ***Research Ethics and Plagiarism*** (AlexU, August, 17,18, 2019).
- ***Competitive Research Projects Proposals*** (AlexU, August, 17,18, 2019).

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