**Mohammed Daoudi**

### Curriculum Vita

# CONTACT INFORMATION

University of Central Florida

Department of Chemistry

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EDUCATION

# Doctor of Philosophy: Materials Chemistry

Department of Chemistry,

University of Central Florida (2015)

Dissertation: *Aggregation of Squaraine Dye Derivatives in Solid State Spin-coated Thin Films.*

**Master of Science**: Industrial Chemistry

Department of Chemistry,

University of Central Florida (2005)

Dissertation: *Synthesis and Polymerization of Bifunctional Five -Membered Cyclic Dithiocarbonates and their use as Stabilizers for Magnetic Nanoparticles.*

**Bachelor of Science:** Applied Chemistry

Department of Chemistry

Damascus University (1976)

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# EMPLOYMENT HISTORY

##### 1994 – 2000 Head of Technical Services, Qatar Petrochemical Co.

##### 1990 – 1993 Polymer Applications Sen. Eng., Qatar Petrochemical Co.

###### 1987 – 1990 Quality Control Manager, Qatar Petrochemical Co.

###### 1985 – 1987 Training Coordinator, Qatar Petrochemical Co.

###### 1982 – 1985 Petrochemical QC Supervisor, Qatar Petrochemical Co.

1979 – 1982 Chemist, Qatar Petrochemical Co.

TEACHING HISTORY

2015 - Present Chemistry Lecturer, University of Central Florida

2011 - 2015 Chemistry Instructor, University of Central Florida

2009 - 2011 Adjunct Chemistry Instructor, University of Central Florida

##### 2008- 2009 Chemistry Instructor, University of Central Florida.

2006 - 2011 Adjunct Chemistry Professor, Valencia Community College

##### 2005 - 2006 Analytical Chemistry Lab Instructor, University of Central Florida.

2006 - 2007 Adjunct Chemistry Professor, Daytona Beach Community College

1976 – 1979 Science Teacher, Khalifa School

COURSES

*Course Title Designation Institution*

#### Introduction to Chemistry CHM1025C Daytona Beach Community College (2006)

#### Chemistry for Engineers CHS 1440 University of Central Florida (2004)

Gen Chem. w Qual Anal I CHM 1045C Valencia Community College (2006- )

Organic Chemistry Lab CHM 2211L University of Central Florida (2002- )

Organic Lab Tech. II CHM 3212L University of Central Florida (2004)

Analytical Chemistry Lab CHM 3120L University of Central Florida (2005 - )

Techniques in Polymer Science CHM 5451C University of Central Florida (Sp2005+Sp2006)

Gen Chem. w Qual Anal II CHM 1046C Valencia Community College (2008- )

Organic Chemistry I CHM 2210C Valencia Community College (2008- )

Organic Chemistry II CHM 2211C Valencia Community College (2009- )

Chemistry Fundamentals IA CHM 2040C University of Central Florida (2008- )

Chemistry Fundamentals I CHM 2045C University of Central Florida (2007- )

Chemistry Fundamentals II CHM 2046 University of Central Florida (2008- )

Organic Chemistry I CHM 2210 University of Central Florida (2010- )

Chemistry Fundamentals Lab CHM 2046L University of Central Florida (2010)

Concepts in Chemistry CHM 1020 University of Central Florida (2012- )

Polymer Chemistry CHM 5450 University of Central Florida (2014)

Organic Chemistry II CHM 2211 University of Central Florida (2015- )

Techniques in Polymer Science CHM 5451C University of Central Florida (2015)

**Other Related Skills**

* Personnel hiring, training and development
* Quality control and assurance
* Laboratory management
* Quality system auditing
* Polymer characterization, analysis, and processing
* Laboratory equipment operation and maintenance. This includes:
  + TGA: Thermogravimetric Analysis
  + DSC: Differential Scanning Calorimetry
  + DMA: Dynamic Mechanical Analysis
  + MS :Mass Spectrometry
  + GC: Gas Chromatography
  + HPLC: High Performance Liquid Chromatography
  + IR: Infrared Spectroscopy
  + UV/Vis Spectroscopy

**Related Certificates**

* Graduate Teaching Assistance Certificate
* Associate Faculty Certificate
* Internal Quality Auditor Certificate
* Creating and Teaching Online Courses

**Industrial Experience**

I possess a long, profound, and widespread experience in polymer science and technology. I managed various polymer related activities. In addition to polymer manufacturing techniques where I was involved in polymer production using various production technologies such as bulk free radical polymerization , I worked and managed an industrial R&D lab that involves in analyzing and testing existing polymer grades and conducting studies aimed to develop new polymer grades using polymer characterization techniques and equipment such as DSC (deferential scanning calorimetry), TGA (thermogravimetric analysis), GPC (Gas permeation chromatography), mechanical properties measurement, etc.

I also worked and managed the plastic processing center. The center polymer ethnologists conduct processing trials for existing and newly developed polymer grades using a wide spectrum of polymer processing equipment and technologies such as extrusion, injection molding, blow molding, etc.

My experience also involved solving customer technical problems and issues. This includes suggesting the proper polymer grade for specific applications, polymer processing optimization, development of new products, etc.

**References**

Available upon request