

# Mohammed Ahmad Musa Alwahish, PhD. Sc.

PhD. Inorganic and Materials Chemistry

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## •Education:

2017 - 2021 PhD. in Inorganic and Materials Chemistry

**University of Jordan** 

Supervisor: Prof. Dr. Hamdallah A. Hodali and Prof. Dr. Firas Awwadi.

Dissertation title: Preparation and Evaluation of Ru(II) Complexes with Monomeric Bidentate Ligands and with Polymeric Multidentate Ligands for Solar Cell Applications.

2012 - 2016 M. Sc. in Inorganic Chemistry

University of Jordan

Teaching (Lecturer)

Thesis advisor: Prof. Dr. Hamdallah A. Hodali.

**Thesis title:** Preparation and Characterization of Some Ruthenium(II) Complexes with the Mixed-donor Ligands: N-P and N-S.

B. Sc. in General Chemistry **University of Jordan** 

1997 - 2001

## •Personal Informations:

2022 - present

Date of Birth June 11<sup>th</sup>, 1979

Place of Birth Kuwait

**Nationality** Jordanian

## Academic Experiences:

reaching (Lecture)	2022 - present
Department of Pharmacy/ Middle East University	
Teaching (Lecturer)/ Part time	2022 - 2022
Department of Basic Sciences/ Philadelphia University	
Department of Chemistry/ University of Jordan	
Teaching (Lecturer)	2021 - 2022
Department of Basic science/ Prince Al-Hussein Bin Abdullah II Academy of Civil Protection	

2018 - 2019 **Teaching Assistant** 

Department of Chemistry/ University of Jordan

Research Assistant 2016 - 2017

Department of Chemistry/ University of Jordan

Department of Chemistry/ University of Jordan

Supervising General Chemistry Labs 1998 - 2001

#### • Thorough knowledge of teaching the following courses:

- Instrumental Analysis
- · General Chemistry I
- General Chemistry II
- Practical General Chemistry
- Practical Organic Chemistry
- Pharmaceutical Calculations
- Perfumery and Essential Oils

- Inorganic Chemistry
- Analytical Chemistry
- Organic Chemistry (I)
- Organic Chemistry (II)
- Practical Instrumental Analysis
- Polymers and Material Sciences
- Disinfectants and Chemical Detergents

## •Field of Study:

- •Coordination Chemistry of Ruthenium compounds with mixed-donor ligands.
- •Chemistry of Ruthenium compounds with bipyridyl ligands.
- •Ruthenium compounds as dye sensitizer in solar cells.
- •Chemistry of hazardous materials and the chemistry of fire.
- Antimicrobial and Antibacterial Studies.

• Other Experiences: Assistant Professor in Chemistry Middle East University, Faculty of Pharmacy.  Part-time Lecturer Faculty of Pharmacy/ Middle East University	2022 - Present 2022 - 2022	• <u>Languages:</u> Arabic English
Department of Basic Sciences/ Philadelphia University Department of Chemistry/ University of Jordan  Assistant Professor in Chemistry Prince Al-Hussein Bin Abdullah II Academy of Civil Protection/ Civil Defense Directorate of General Security.	<b>2021 - 2022</b> , General	
Head of Civil Defense Center Prince Hamzah Hospital and Tareq.	2020 - 2021	• <u>Skills:</u>
Operations Officer, Site Commander  Dealing with chemicals and hazardous materials accidents, Zarqa.	2018 - 2020	•Microsoft office tools (Word, Excell and PowerPoint).
Commander of Hazardous Materials Team  Dealing with hazardous materials accidents including; Amman, Madaba, Ba	<b>2011 - 2018</b> Iqa/ Middle region.	•ChemOffice (ChemDrow Ultra 8.0,)
Hazardous Materials Officer Supervising transportation of hazardous materials from Aqapa to Amman.	2009 - 2011	MUSER (MILL L. C
<b>Public Safety Officer</b> Dealing with several accidents including; First aid, Rescue, Fire fighting and chemicals and hazardous materials accidents.	<b>2004 - 2009</b> dealing with	•WISER (Wireless Information System for Emergency Responders) Applications.
Joining the Civil Defense Directorate	2002 - 2004	
•Publications:		•HazMat ERG (Hazardous Materisls Emergency Response Guidebook) Applications.
<b>5.</b> <u>Mohammad A. Al-Wahish</u> , Firas F. Awwadi and Hamdallah A. Hor "Synthesis, Spectroscopic Properties and Single Crystal X-ray Structu Dithiocyanato-N-bis[8-(diphenylphosphino)quinoline]ruthenium(II)' Chemistry.	ire of	•The CAMEO software suite (ALOHA, CAMEO Chemicals,
<b>4.</b> Akel, S. Sharif, M. A. Al-Esseily, R. <u>Mohammad A. Al-Wahish</u> , Hod Buschbaum, P. Schmidt-Mende, L. and Al-Hussein M. ( <b>2021</b> ), Photo on Ternary P3HT:PCBM:Ruthenium(II) Complexes with 8-(diphenylphosphino)quinoline Active Layar. <b>Colloids and Surfaces A and Engineering Aspects</b> , 622, 126685.	oltaic Cells Based	CAMEO Data Manager and MARPLOT).
<b>3. Mohammad A. Al-Wahish</b> , Firas F. Awwadi and Hamdallah A. Hod "Synthesis, Characterization, Computational Studies and Single Crys [Ru(N-P) <sub>2</sub> (O-O)] Complexes" <b>Journal of Structural Chemistry</b> .		•E-learning Pragrams (Microsoft Teams and Zoom)
2. Eyad S. M. Abu-Nameh, Naela Al Absi, Mohammad A. Al-Wahish, Hodali and Mohammad F. Khanfar. "Electrochemical Detection of T Carbon Electrodes Modified with Ruthenium(II) Complex "Internation Electrochemical Science, 15 (2020) 6396 – 6404.	adalafil at Glassy	
1. Mohammad A. Al-Wahish, Firas F. Awwadi, Rasha K. Al-Shwieki & Hodali. "Ruthenium(II) Complexes with 8-(Diphenylphosphino)quin Spectroscopic Properties and Single Crystal X-ray Structures" Synthin Inorganic, Metal-Organic, and Nano-Metal Chemistry, 47 (2016)	oline: Synthesis, esis and Reactivity	

## •Local and International Conferences:

- Mohammad A. Al-Wahish, Int. Conf. Chemistry and Biosciences, Al al-Bayt University, Mafraq, Jordan. April 5-6, 2017.
- 2) Mohammad A. Al-Wahish, **Int. Conf. NANO-TECH**, Technische Universität Chemnitz, **German**. 2016.
- 3) Mohammad A. Al-Wahish, Int. Conf. NANO-TECH, Hamdi Mango Center for Scientific Research, University of Jordan, Amman-Jordan. 2016.

## •Official Posts:

- •Leadership for the hazardous materials team of the middle zone (Amman, Madaba, Zarqa and Balqa)/ 3 years.
- •Leadership for the hazardous materials team of Aqaba/ 3 years.
- •Preparing and offering training courses in hazardous materials.
- •Supervising exercises to deal with hazardous materials accidents.

## •References:

Prof. Hamdallah Hodali
(Inorganic Chemistry and Materials
Chemistry)
University of Jordan, Amman

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Prof. Jalal Zahra (organic Chemistry) University of Jordan, Amman

**Tel:** +962791998431 **E-mail:** *zahra@ju.edu.jo* 

Prof. Sharif Arar
(Analytical Chemistry)
University of Jordan, Amman
Tel: +962796142835

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Prof. Firas Awwadi
(Physical Chemistry)
University of Jordan, Amman

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