**Adnan Elkhaldy**

**Research Emphasis**

We have a wide range of research interests. They all involve synthetic chemistry ranging from organometallic chemistry, screening the synthesized compound as antimicrobial and anticancer agent, to biofuel catalysis design

* **Educatio**n
* BS, University of Mansoura, 1983
* PhD, University of Rajasthan, 1991

**Professional Service**

* President of Al azhar University, Gaza Palestine 2006, Vic president of Al azhar university (2005), Dean of students affairs 2004, Chair of chemistry department(1997 to 2004) for the Division of Nuclear Chemistry and Technology, American Chemical Society
* Member (2006-2012), Board of Directors, Society of Radiopharmaceutical Science (elected)
* **Professional Experience**
* Professor, Department of Chemistry- AUG, 2004.
* Associate Professor, Department of Chemistry- AUG, 1999-2004.
* Assistant Professor, Department of Chemistry- AUG, 1993-1999.
* Postdoctorate University of Missouri, Kansas City, MO, 1997-1998
* Postdoctorate Ohio State University, Columbus, OH,2006-2008.
* Joint research in Rennes University , Rennes, France, 1995

**Honors and Awards**

* 2012- Member of the international consultant board, institute of Earth & Human

Center for Researches and Studies (EHCRS).

* 2010-Summer research in Ohio State university Chemistry department with

Prof., Chisholm and Prof., Haddad

* 2007-2009- Scholar Rescue Fund-Institute of International Education (IIE-SRF) .
* 1996-1997- Fulbright Fellowship. University of Missouri, Kansas City, MO
* 1995- Joint research with Prof., Diznuf Rennes University

**RESEARCH INTEREST**

* Multi Step Synthetic Chemistry of Organometallic Complexes, Catalysis and Polymer.
* Synthesis and Biochemical Studies of Organometallic Complexes bioactivity against bacteria, Algae and Fungi for applications into antimicrobial, pesticides and anticancer therapies.
* Characterization of synthesized compounds with elemental analysis and spectroscopic analysis (IR, NMR 1H, 13C, 31P, 119Sn---etc.).
* Using X-ray for characterization and structure elucidation of complexes.

**Selected Publications**

* Influence of the Metal (Al, Cr, and Co) and Substituents of the Porphyrin in Controlling Reactions Involved in Copolymerization of Propylene Oxide and Carbon Dioxide by Porphyrin Metal(III) Complexes. 3. Cobalt Chemistry. Chandrani Chatterjee, Malcolm H. Chisholm, Adnan El-Khaldy, Ruaraidh D. McIntosh, Jeffrey T. Miller and Tianpin Wu. Inorg. Chem., 2013, 52 (8), pp 4547–4553.
* Synthesis and semi-empirical sparkle PM6 study of substituted dithiophosphoric compounds of gadolinium(III) A.M. MKADMH, A. A.S. Elkhaldy, A.M. ABU-SHANAB, R.Y. MORJANx and M.A. ELARAG. Journal of Coordination Chemistry Vol. 66, No. 6, 20 March 2013, 1016–1030.
* Synthesis, spectroscopic, and antimicrobial studies on O, O′-dialkyl and alkylene dithiophosphate cyclopentadienyl-zirconium(IV) hydride". A.S. Elkhaldy, A. R. Hussien, A. M. Abu Shanab b & M. A.Wassef. Journal of Sulfur Chemistry First, Volume 33, Issue 3, 2012 , 295-302.
* Synthesis and Antimicrobial Studies of Bis (O,O'-Dialkyl and Alkylene Dithiophosphoric Acids) Adducts of Diphenyl Diselenide. A. A. S. El Khaldy , A. M. Abushanab, and Emad Abu Alkhair. Applied Organometallic Chemistry , Volume 25, Issue 7, Pages 487–595, 2011.
* Synthesis and Characterization of Chloro Bis (Cyclopentadienyl) Titanium(IV) and Zirconium(IV) O,O'-Dialkyl and Alkylene Dithiophosphates. A. S. Elkhaldy, A. R Hussien, A. M. Abu Shanab, M\_A. Wassef . Phosphorus, Sulfur, and Silicon and the Related Elements . 589, Volume 186, Issue 3, 589-597, 2011.