

# CV

**Name: Ahmad Abdulaziz Al-Owais**

**Nationality: Saudi**

**Date of birth: 1/7/1370 H**

**Marital Status: Married**

**Number of Children: 5**

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## ACADEMIC QUALIFICATIONS

Degree	Specialty	Date	University	Country
BSc	Chemistry/Geology	1074	Riyadh University	Saudi Arabia
MSc	Cemistry.General Science	1979	Ball State University	USA
PhD	Chemistry	1984	Universiy College of Swansea	UK

## WORK HISTORY

Occupation	Date		Employer
	From	To	
Lab Assistant	1974	1984	King Saud University  Riyadh  Saudi Arabia
Assistant Professor	1984	1997	
Associaated Professor	1997	Now	

## International Awards

**Winner of the Custodian of the Two Holy Mosques Abdullah bin Abdulaziz International Award for Translation in its third round.**

## PUBLICATIONS

### A. Papers:

1. Howard Purnell, J., Al-Owais, A., Ballantine, J., and Thomas, J., TGA Study of the Adsorption of Ethanoic Acid By Ion-Exchanged Montmorillonite, proceedings of the Intl. Clay Conference, Denver (USA), (1985).
2. Al-Owais, A., Ballantine, J., and Purnell, J., Thermogravimetric Study of Intercalation of Acetic Acid and of Water by  $Al^{3+}$ -Exchanged Montmorillonite, J. Mol. Cat., 35, p. 201 (1986).
3. Al-Owais, A., High-Temperature Treatments on A Series of Bimetallic Pt-Sn/ $Al_2O_3$ : Methyl-Cyclopentane Conversion, Proceedings of the 2nd Intl. Conf. On Chemistry in Industry, Bahrain, pp. 447-456, (Oct. 1994).
4. Al-Owais, A., High-Temperature Prereatment of Alumina- Support 0.6% Pt Catalysts: Methyl-Cyclopentane Hydrogenolysis, J. King Saud University, Vol. 7, Science (1), pp. 89-103, Riyadh (AH 1415/1995).
5. Al-Khowaiter, S., Al-Otaibi, H., and Al-Owais, A., Hydrogenolysis of n-Heptane Over Nickel Supported Catalysts: Influence of Experimental Conditions on Selectivity, J. King Saud University, Vol. 7, Science (2), pp. 281-296, Riyadh (AH 1415/1995).
6. Al-Khowaiter, S., Al-Owais, A., and El-Nazer, N., Studies on Nickel-Alumina Hydrogenation Catalyst Impregnated with Europium Oxides: 1-Surface Area and

- Pore Structure, J. King Saud University, Vol. 8, Science (1), pp. 63-78, Riyadh (AH 1416/1996).
7. Al-Owais, A., Al-Khowaiter, S., and El-Nazer, N., Studies on Nickel-Alumina Hydrogenation Catalyst Impregnated with Europium Oxides: 2-Catalytic Activity and Mechanism, JI. Egyptian Society of Engineers,, Vol. 37, No. 1, pp. 30-35, (1998).
  8. Aboul-Geith, A.K., Ghoneim, S.A., Al-Owais, A.A., Effect of Hydrothermal Treatment and Ammonium Ion Incorporation in Platinum-Mordenite Catalysts for n-Hexane Hydroconversion, Applied Catalysis A: General, Volume 170, Issue 2 15 June 1998, Pages 277-283.
  9. Mahfouz, R. M., Munshi, M. A. S., Al-Owais, A., AlShahri, S., M. M. Al-Osaimi, M.M., and Abd El-Salam, N. M,  $\gamma$ - Irradiation Effect On Kinetics and Mechanism of The Thermal Decomposition of Zinc Acetate, Radiation Effects and Defects on Solids, Vol. 159, pp, 7-15, January (2004).
  10. Al-Owais, A., Al-Haizan, A., and Khatab, M. A., Evaluation of The Synergistic Interaction Between Decabromobiphenyl Oxide and Alumina on The Flammability And Thermal Behavior of Unsaturated Polyester Resin, J. saudi Cem. Soc., 9, pp. 415-426, (2005).
  11. Ahmad Aouissi, Ahmad Al-Owais and Hoceine Bayahia, Characterization of a Series of Iron Based Oxides Used as Catalysts In Oxidative Dehydrogenation of Ethylbenzene, J. saudi Cem. Soc., 9, pp. 127-134, (2009).
  12. L.M. AL-Harbi, E. H. El-Mossalamy, H.M.Arafa, A.Al-Owais, M. A. Shah, Growth of Zinc Oxide (ZnO) Nanorods and Their Optical Properties, Modern Applied Science, Vol. 5, No. 2; April 2011, 87-92.
  13. A. Al-Owais, E. H. El-Mossalamy<sup>1</sup>, M. A. Shah, and H.M. Arafa, Fabrication of Magnesium Hydroxide Nanoneedles, Chemistry and Technology of Fuels and Oils, Vol. 47, No. 2, May, 2011 (Russian Original No. 2, March-April, 2011), 151-156.
  14. E. H. El-Mossalamy, Waleed E. Mahmoud, A. Al-Owais, and H. M. Arafa, Synthesis and Effect of Vanadium Pentoxide Nanoparticles on Dielectric Relaxation and AC Conductivity of Polyvinyl Alcohol, Chemistry and Technology of Fuels and Oils, Vol. 47, No. 3, July, 2011 (Russian Original No. 3, May-June, 2011), 223-229.
  15. Ahmed Aouissi, Hoceine Bayahia, Zeid A. Al-Othman and Ahmed A-Owais, Dehydrogenation of Ethylbenzene in the Presence of CO<sub>2</sub> Over Iron-Chrome Binary Oxide Catalytic System, Asian Journal of Chemistry; Vol. 24, No. 8 (2012), 3754-3758.
  16. Ahmed A. Al-Owais, Synthesis and Magnetic Properties of Hexagonally Packed ZnO Nanorods, Arabian Journal of Chemistry (2013) 6, 229-234.
  17. A. Al-Owais, Novel Determination of Niobium Polymeric complication With Phthalizinones and Composite Formation, IUPAC MACRO2012 World Polymer Congress, W078, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA, 24-29 June 2012.
  18. A. Alarifi, M Senna and A. Al-Owais, Edible Carbohydrate Blend Materials for Food Surface Protection, 245<sup>th</sup> ACS National Meeting, New Orleans, LA, April 7-11, 2013.

19. A. A. Al-Owais, Synthesis, Characterization and Thermal Studies of a New Series of Linear Saturated Polyamides, 247<sup>th</sup> ACS National Meeting, Dallas, TX, Mar 16-20, 2014.
20. A.A. Al-Owais, I. S. El-Hallag, L.M. Al-Harbi, E.H. El-Mossalamy and H.A. Qari, Electrochemical Properties of Charge Transfer Complexes of 4,4'-bipyridine with Benzoquinone Derivatives, J. New Mat. Electrochem. Systems, 17, 17-21, 2014.
21. A.A. Al-Owais, I.S. El-Hallag L.M. Al-Harbi, Investigation of magnetic properties of electrodeposited cobalt film in mesoporous and macroporous templates, J. Chil. Chem. Soc. Submitted for publication Apr 2014.
22. A. A. Al-Owais, I.S. El-Hallag and L.M. Al- Harbi, Electrochemical properties of Cu<sup>2+</sup> ion at HMDE in aqueous medium, Bulg Chem Commun. Submitted for publication, 2014.
23. A.A. Al-Owais, I.S. El-Hallag, L.M. Al-Harbi, New convolutive voltammetric method for determination of chemical and electrochemical parameters of EC<sub>rev</sub> system, J New Mat Electrochem sys. Submitted for Publication in 2014.
24. Samia El-Sigeny and Ahmad Abdulaziz Al-Owais, Preparation and Characterization of Hydrogel based on Chitosan for Removal of Heavy Metal Ions, Arabian Journal of Chemistry. Submitted for publication Apr 2014.
25. El-Refaie Kenawy, Ahmed Al-Owais, Abdel-baset. M.Shokr, F.K. Awad and M. Serag, Heavy metal ion removal from aqueous solutions by chemically modified ethylene –vinyl alcohol copolymer, Molecules. Submitted for publication Apr 2014.
26. A. A. Al-Owais, I. S. El-Hallag, New convolutive voltammetric method for determination of chemical and electrochemical parameters of EC<sub>rev</sub> system, Wulfenia Journal, Klagenfurt Austria, Vol 21, No. 9; 62-81, Sep 2014.
27. El-Refaie Kenawy, Ibrahim A. Salem, Enaam M. Abo-Elghit, A. A. Al-Owais, New trends in antimicrobial polymers: A state-of-the-art review, International Journal of Chemical and Applied Biological Sciences, Vol 1, Special Issue 2: Materials for Biomedical Applications, Year 2014.
28. E. H. El- Mossalamy, Abdullah Yousif Obaid, L. M. Al-Harbi, N. F. Al Harby, A. A. Al-Owais and Zaheer Khan, Extracellular bio-synthesis, characterization and morphology of silver nanoparticles, Global Advanced Research Journal of Microbiology, Vol. 3(8) pp. 119-126, October, 2014.
29. E. H. El-Mossalamy, L. M. Al-Harbi, A. Y. Obaid, S. A. El-Daly, A. O. Al- Youbi, A. M. Asiri, M. El-Batoutic and A. A. Al-Owais, Photochemistry and cyclic voltammetry of N, N-bis(2,5-di-tert-butylphenyl) – 3,4,9,10 perylenebis (dicarboximide) (DBPI), Global Advanced Research Journal of Microbiology, Vol. 3(8) pp. 144-151, October, 2014
30. A. A. Al-Owais, I. S. El-Hallag, M.A. Ghanem and E.H. El-Mossalamy, Capacitance Properties of Electrodeposited Polyaniline Films on Stainless Steel Substrate, Journal of New Materials for Electrochemical Systems 18, 017-020 (2015).
31. A. A. Al-Owais, I. S. El-Hallag, Determination of the redox potential of the E<sub>q</sub> C<sub>i</sub> system via cyclic convolutive voltammetry and digital simulation methods, Oxidation Communications 38, No 2, 648-654 (2015).
32. E. H. El-Mossalamy, M. El-Batouti, T. Ahmed, L. M. Al-Harby, N. F. Al Harby and A. A. Al-Owais, Preparation and Physicochemical Characterization of Modified Acidic and Basic Metal Oxide Catalysts, Asian Journal of Chemistry, Volume 27, No. 10, 3625-3632, (2015).
33. A. A. Al-Owais and I. S. El-Hallag, Fabrication And Characterization of Mesoporous Nanostructured Nickel Electrode, Oxidation Communications 38, No 3, 1342–1348 (2015).

34. El-Sayed H. El-Mossalamy, Mervette El-Batouti, Ahmed A. Al-Owais and Nouf F. AL Harbi, Charge-Transfer Complex of Some Thiophene Schiff Base Compounds With Nitrobenzene Acceptors, *Revue Roumaine de Chimie*, 60(1), 33-49 (2015)
35. A.A. Al-Owais, I. S. El-Hallag, Voltammetric Studies of Anthracen-9-ylmethylene-(3,4-dimethyl-isoxazol-5-yl)-amine Compound at Platinum Electrode, *Journal of New Materials for Electrochemical Systems* 18, 177-181 (2015).
36. A. A. Al-Owais, I. S. El-Hallag, Effect of film thickness on Coercivity of Electrodeposited Cobalt Film in Mesoporous and Macroporous Templates, *Asian Journal of Chemistry*, Vol. 28, No. 4, 830-834 (2016).
37. A. A. Al-Owais, I. S. El-Hallag, Voltammetric Investigation of  $\text{Ni}^{2+}$  in Hexagonal Lyotropic Liquid Crystalline Phase at Gold Disk Electrode, *J. Balkan Tribological Association*, **ACCEPTED**.
38. Taeb Aouak, Mohhamed Ouladsmame, Abdulaziz Ali Alghamidi, Ahmad Abdulaziz Al-Owais, Turki Mohammad Al-Turki, Zeid Abdullah Allothman, Waseem Sharaf Saeed, Fabrication of Tissue Engineering Scaffold From Poly(vinylalcohol-co-ethylene)/Poly(D,L-Lactic-co-glycolic acid) blend: Miscibility, Thermomechanical Properties and morphology, *International Journal of Polymeric Materials*, **ACCEPTED**.
39. A. A. Al-Owais, I. S. El-Hallag, New convolutive voltammetric method for determination of chemical and electrochemical parameters of ECreV system, oxidation communications, **SENT FOR PUBLICATION**.
- 40.

## **B. Books (ALL ARE IN ARABIC)**

1. Ahmad Al-Owais, Sulaiman Al-Khwaiter, Abdulaziz Al-Wassil, Abdulaziz Al-Suhaibani, "General Chemistry", Al-Khuraiji Publisher, 3<sup>rd</sup> Edition, 2004.
2. Abdulaziz Al-Wassil, Ahmad Al-Owais, Sulaiman Al-Khwaiter, , Abdulaziz Al-Suhaibani, "Problems and Solutions In General Chemistry", Al-Khuraiji Publisher, 3<sup>rd</sup> Edition, 2004.
3. Ahmad Al-Owais, Abdulaziz Al-Wassil, " Practical General Chemistry", Al-Khuraiji Publisher, 3<sup>rd</sup> Edition, 2004.

- 4. Ahmad Al-Owais, Abdullah Almayouf, “Electrochemistry: Electrolytic Conductance and Galvanic Cells”, Al-Khuraiji Publisher, 4<sup>th</sup> Edition, 2008**
- 5. Ahmad Al-Owais, “Experiments In Physical Chemistry: Chemical Thermodynamics”, Al-Khuraiji Publisher, 3<sup>rd</sup> Edition, 2004.**
- 6.-11 Six Books In Chemistry for High School (One for each of the two terms for the three levels), Al-Khuraiji Publisher, 4<sup>th</sup> Edition, 1995.**
- 12. Nasser Al-Andas, Ahmad Al-Owais, Abdullah Al-Qahtani, “Physical Chemistry”, KSU Publications, 2008. (This book is the Arabic translation of Peter Atkins Physical Chemistry Book).**
- 13. Ahmad Al-Owais, “Simplified Educational Chemical Experiments”, Al-Khuraiji Publisher, 2009.**
- 14. Ahmad Al-Owais, “Four Laws That Drive The Universe”, KSU Publications, 2011. (This book is the Arabic translation of Peter Atkins Four Laws That Drive The Universe Book).**

**15. Ahmad Al-Owais, “Galileo’s Finger: The Ten Great Ideas Of Science”, (Is Being Translated), (This book is the Arabic translation of Peter Atkins Galileo’s Finger: The Ten Great Ideas Of Science Book).**

**C. Soft Weirs Programs (ALL ARE IN ARABIC)**

**Six Soft wears In Chemistry for High School (One for each of the two terms for the three levels, accomplished in 1998 for Manahij Addwalig Company).**

## **CONFERENCES, FORUMS, WORK SHOPS**

**Participating in many conferences in the field of upervisng postgraduate students, peer-review Chemistry books, researches, and projects.  
Participating in organizing workshops and forums in Chemistry and Education.**

## **PERSONAL INTERESTS**

**Writing newspaper articles in social issues; dessert trips and journeys; reading novels, history and philosophy books.**