

## Curriculum Vitae: Dr. Ahmed Kamel Hassan NOHMAN



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- Date and place of birth: 08 August 1959 - El-Minia (EGYPT).
- Nationality: Egyptian
- Marital status: Married with two children (Mohammad and Mona)
- Language: Arabic (native), English and French
- Education: **Ph.D.**, Minia University, Jan. 1991, "Characterization and Activity of Manganese Oxide Supported Catalysts", Ascientific channel between Minia University (EGYPT) and Poitiers University (FRANCE);  
**M.Sc.**, Minia University, June 1985, "The Bearing of Compaction on Surface Characteristics of Chromia catalysts";  
**B.Sc.**, Minia University, May 1981, "Chemistry".
- Employment: 2004 - now Professor Phys. Chem. Minia Univ.;  
1996 - 2004 Associate Professor Phys. Chem. Minia Univ.;  
1991 - 1996 Lecturer in Physical Chemistry Minia Univ.;  
1990 - 1991 Assistant Lecturer, Minia University;  
1988 - 1990 Ph.D. Student at Poitiers University, FRANCE;  
1985 - 1988 Assistant Lecturer at Minia University;  
1981 - 1985 Demonstrator & M.Sc. Student at Minia Univ.
- Experience: Research: Surface Chemistry and Catalysis: Synthesis,

Characterization and Development of Catalytic Solids.  
Teaching: Undergraduate and Postgraduate courses of  
Physical Chemistry: Surface Chemistry and Catalysis;  
Colloidal Chemistry; Chemical Thermodynamics; Solid State  
Chemistry; Chemical kinetics and Kinetic theory of gases;  
Solution Chemistry, States of Matter.

Computer command: Fair (Research and Teaching)

Sabbatical Leaves: FRANCE (Poitiers) 1988/1990; 1998/1999; 2001; 2006

Reference Persons: 1) **Prof. Mohamed I. Zaki**,  
Department of Chemistry, Faculty of Science,  
Minia University, El-Minia 61519, Egypt.

2) **Prof. Charles Kappenstein**,  
Université de Poitiers, Chimie V,  
40 Av. du Recteur Pineau,  
86022 Poitiers Cedex, France.

Theses Supervision: I. MSc: 5 Thesis  
II. PhD: 2 Thesis

### *Papers published in refereed journals and Conferences*

- 1985**      1      Bearing of Compaction on Texture of Non-Stoichiometric Chromia  
A. K. H. Nohman, M.I. Zaki, S. Nashed and R.B. Fahim,  
the Eighth Conference on Solid State Science,(Paper),  
El-Minia, EGYPT, 24-27 Feb. 1985.
- 1987**      2      Assessment of Textural Consequences of Compacting Calcined Chromia Gel  
by Nitrogen Sorption Isotherms  
M.I. Zaki, A.K.H. Nohman, S. Nashed and R.B. Fahim  
*Colloids and Surfaces*, 23, 1 - 14 (1987).
- 1988**      3      Structure and Texture of Manganese Oxide Supported Catalysts  
M.I. Zaki, A.K.H. Nohman and C. Kappenstein  
IV Colloque Diffraction X , (Poster),  
Bellevue, Paris, FRANCE, 18-19 Oct. 1988.
- 1990**      4      Preparation of Manganese Oxide Catalysts Using Novel NH<sub>4</sub>MnO<sub>4</sub> and  
Manganese Hydroxide Precursors  
A.K.H. Nohman, D. Duprez, C. Kappenstein,  
S.A.A. Mansour and M.I. Zaki

5th International Symposium on Scientific Bases for the Preparation of Heterogeneous Catalysts, (Paper),  
Louvain-La-Neuve, BELGIUM, 3-6 Sept.1990  
Published in "Preparation of Catalysts V",  
G. Poncelet et al. (Eds.), Elsevier, Amsterdam,  
617 – 626 (1991).

- 1992**      **5**      Characterization of the Thermal Genesis Course of Manganese Oxide from Inorganic Precursors  
**A.K.H. Nohman**, M.I. Zaki, S.A.A. Mansour, R.B. Fahim and C. Kappenstein  
*Thermochimica Acta*, 210, 103 - 121 (1992).
- 1994**      **6**      Nitrogen Adsorption and Surface Texture of High-Area Manganese Oxides Derived from Potassium-Contaminated NH<sub>4</sub>MnO<sub>4</sub>.  
  
**A.K.H. Nohman** and M.I. Zaki  
*Adsorption Science and Technology*, 11, 1, 1- 14 (1994).
- 7**      Characterization of the Decomposition Course of Nickel Acetate Tetrahydrate in air.  
G.A.M. Hussein, **A.K.H. Nohman** and K.M.A. Attyia  
*J. Thermal Analysis*, 42, 1155 - 1165 (1994).
- 8**      Thermoanalytic Resolution of Hydrogen-Influenced Reductive Events in the Decomposition Course of Ammonium Paratungstate  
N.E. Fouad, **A.K.H. Nohman** and M.I. Zaki  
*Thermochim. Acta*, 239, 137-145 (1994).
- 1995**      **9**      Thermal Decomposition of Holmium Oxalate Hexahydrate And Genesis of A Catalyst for 2-propanol Decomposition  
-Thermoanalytic And In-Situ Spectroscopic Studies  
G.A.M. Hussein, **A.K.H. Nohman** and M.I. Zaki  
*New J. Chem.*, 19, 77-82 (1995).
- 10**      Surface Texture of High-Area Manganese Oxide Powders Versus Compaction  
**A.K.H. Nohman**  
*Powder Technology*, 83, 1, 35 - 41(1995).
- 11**      Transition Metal Glyoximates: Thermoanalytic Characterization (1) Thermal Behaviour of Bis(Dimethylglyoximato) Nickel (II).  
**A.K.H. Nohman**  
*Bull. Fac. Sci., Assuit Univ.*, 24 (1-B), 265-276 (1995).
- 12**      Thermal and Chemical Events in The Decomposition Course of Manganese Compounds  
**A.K.H. Nohman**, H.M. Ismail and G.A.M. Hussein  
*J. Anal. And Appl. Pyrolysis*, 34, 265-278 (1995).

- 13** Composition, Structure and Surface Acid-Base Behaviour of Manganese Oxide Dispersed on Silica  
M.I. Zaki, **A.K.H. Nohman**, G.A.M. Hussein and Y.E.Nashed  
*Colloids and Surfaces*, 99, 247-253 (1995).
- 14** Temperature Programmed Characterization Studies of Thermochemical Events Occurring in The Course of Decomposition of Mn(II) Oxysalts  
M.I. Zaki, **A.K.H. Nohman**, C. Kappenstein and T.M. Wahdan  
*J. Materials Chem.*, 5(7), 1081 - 1088 (1995).
- 15** MnO<sub>x</sub>-Influenced Bulk and Surface Behaviours of Catalytic Al<sub>2</sub>O<sub>3</sub>  
M.I. Zaki, **A.K.H. Nohman**, G.A.M. Hussein and Y.E.Nashed  
*J. Materials Science Letters*, 14, 1188 - 1192 (1995).
- 1996** **16** Thermochemical Adsorptive and Catalytic Events Occurring During Isopropanol Decomposition Over MnO<sub>x</sub>-modified Aluminas -In Situ Infrared Spectroscopic Studies  
M.I. Zaki, G.A.M. Hussein, **A.K.H. Nohman** and Y.E.Nashed  
*Thermochim. Acta*, 273, 257 - 286 (1996).
- 1997** **17** Pyridine as a Probe for Characterization of Surface Acid Sites on Chromium and Zirconium Oxides: A diffuse reflectance spectroscopic study.  
G.A.H. Mekhemer, N.E. Fouad, **A.K.H. Nohman** and H.A. Khalaf.  
6<sup>th</sup> Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, (Paper), Ain-Shams University, Cairo, Egypt, 13-16 Dec. (1997).
- 1998** **18** Hydrogen Peroxide Decomposition on Unsupported and Alumina Supported Manganese Oxides  
**A.K.H. Nohman**, D. Duprez, C. Kappenstein and M.I. Zaki  
1<sup>st</sup> Symposium on Propulsion Activity, (Paper), Surrey, ENGLAND, 4-7 July 1998.
- 19** Silica Supported Manganese Oxides: Structural and Textural Study  
**A.K.H. Nohman**  
SILICA from S (Synthesis) to A (Application), (Paper), Mulhouse, FRANCE, 1-4 Sept. 1998.
- 20** Consequences of Foreign Salt Additives on the Structure and Texture of Some Metal Oxides

**A.K.H. Nohman** and H. M. Ismail  
*Colloids and Surfaces, 136, 237 – 243(1998).*

- 1999**      **21**      The Influence of Phosphate and Sulphate Ions on the Surface Texture of Alumina  
**A. K. H. Nohman**, G. A. H. Mekhemer, N. E. Fouad  
And H. A. Khalaf  
*Adsorption Science and Technology,*  
*17 (8) 665 - 673 (1999).*
- 2000**      **22**      Mn/Al<sub>2</sub>O<sub>3</sub> Systems: Structure and Activity  
**A.K.H. Nohman**  
*Reaction Kinetics and Catalysis Letters,*  
*69 (1) 73 – 76 (2000).*
- 23**      Spectro-thermal Investigation of the Decomposition Intermediates Developed Throughout Reduction of Ammonium Paratungstate  
N.E. Fouad, **A.K.H. Nohman** and M.I. Zaki  
*Thermochim. Acta, 343, 139-143 (2000).*
- 24**      Catalyst Preparation: Role of Manganese Precursors on Modifying the Support Nature  
**K.H. Nohman**  
7<sup>th</sup> Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, (Poster),  
Alexandria, EGYPT, 25 – 28 March 2000.
- 25**      Surface to Bulk Characterization of Phosphate Modified Aluminas  
G.A.H. Mekhemer, **A.K.H. Nohman**, N.E. Fouad  
and H.A. Khalaf  
*Colloids and surfaces, 161, 3 (2000) 439.*
- 26**      Comparative Studies of Some Supported Catalysts  
**A.K.H. Nohman**  
Second International Conference on Basic Sciences and Advanced Technology, (Poster),  
Assiut, EGYPT, 5-8 Nov. 2000.
- 27**      Characterization of Ammonium Tungsten Bronze [(NH<sub>4</sub>)<sub>0.33</sub>WO<sub>3</sub>] in the Thermal Decomposition Course of Ammonium Paratungstate  
N.E. Fouad, **A.K.H. Nohman**, M.A. Mohamed  
and M.I. Zaki

*J. Anal. Appl. Pyr*, 56, 23 – 31 (2000).

- 2001**      **28**      Enhanced Transformation of Amorphous Silica into Quartz. Role of Manganese Ions and Argon Atmosphere  
**A.K.H. Nohman**, F. Gérard and C. Kappenstein  
2nd International Conference on Silica,  
SILICA 2001, (Paper),  
Mulhouse, FRANCE, 3-6 Sept. 2001.
- 2002**      **29**      Pyridine and Nitrogen Adsorption on Some Metal Oxides  
**A.K.H. Nohman**, H. M. Ismail and M. G. Abu-Bakr  
8<sup>th</sup> Ibn Sina International Conference on Pure and Applied  
Heterocyclic Chemistry, (Poster),  
Luxor, EGYPT, 25 – 28 March 2002
- 30**      Synthesis and Characterization of Some Oxide Catalysts.  
**A.K.H. Nohman**, M.G.A. Saleh and H.M. Ismail,  
*Bull. Fac. Sci., Assuit Univ.*, 31 (2-B), 71-85 (2002).
- 2003**      **31**      Holmium and Uranium modified NiO/SiO<sub>2</sub> and NiO/TiO<sub>2</sub>  
Catalysts  
**A.K.H. Nohman**, G.A.H. Mekhemer, M.A. Tolba and  
S.A.A. Mansour  
*Bull. Fac. Sci., Assuit Univ.*, 32 (2-B), 1-11(2003).
- 2004**      **32**      Precursor-Support Interactions in Silica-Supported  
Manganese Oxide Catalysts.  
**A.K.H. Nohman**  
*Monatshefte für Chemie* , 135, 269-278 (2004).
- 33**      Characterization and Catalytic Activity of Bulk Manganese  
Oxides.  
**A.K.H. Nohman**, A.S. Megahed and S.A.A. Mansour  
*Egyp. J. Appl. Sci., In Press* (2004).
- 34**      Characterization and Catalytic Activity of Silica-Supported  
Manganese Oxide Catalysts.  
**A.K.H. Nohman**, A.S. Megahed, H.M. Ismail and  
S.A.A. Mansour  
*Minia Sci. Bull., In Press* (2004).
- 35**      Redox Catalysis on Manganese Oxides: Surface Attributes  
and Reaction Mechanisms (A Review Article)  
**A.K.H. Nohman**, M.M. Mohamed and M.I. Zaki  
*Current Topics in catalysis, Submitted* (2004).

- 2004**      **34**      In-Situ x-ray diffractometry and kinetic studies of Polymorphic transformations in silica-supported Manganese oxide  
**A.K.H. Nohman**, F. Gérard and C. Kappenstein  
*J. Solid State Chem., To be Submitted (2004).*
- 2005**      **35**      Development of Catalytic Properties of Mordenite Zeolite via Chemical Modification  
M.M. Mohamed, **A.K.H. Nohman**, and M.I. Zaki  
*Current Topics in catalysis, (2005).*