Shaeel A. Al Thabaiti, Ph.D.

Specialization	**Physical Chemistry**
Scientific Degree	**Professor**
E-mail	**sthabiti@hotmail.com** **sthabaiti@kau.edu.sa**
Website	**http://sthabaiti.kau.edu.sa**
Mobile	**+966-505694466**
Office Tel.	**+966-٢٦٤٠٠٠٠٠ - ٢٦٩٥١٤١٠ / 52305**
Fax.	**+966-26952292**

Awards

Outstanding Research Award – Deanship of Scientific Research – KAU (1429 – 1430 H)

Research Interest

- Chemical modification of carbon nanostructures.
- Synthesis and applications of different metal oxide nanoparticles.
- Synthesis and thermal studies of different inorganic complexes.
- Preparation and characterization of different photocatalysts.

Management and Academic experiences

- Vice Dean of Faculty of Science for the development (2010 – present)
- Head of Chemistry Department (1426 – 1430 H)
- Member of the Faculty postgraduate Studies Committee.
- Council Secretary of Chemistry Department (1416 – 1418 H) and (1420 – 1422 H).
- Member of the Scientific Committee for the Fifth Arab Olymbic in Chemistry – Union of Arab Chemists – KSA (2009).
- Member of the delegation, King Abdulaziz University participating in the discussion of ways of cooperation with French universities and institutes – Paris – France (25 – 29 Feb. 2008).
- Member of Faculty Students Discipline Committee (1428 H).
- Member of the Monitoring Committee Rapporteur for General Science, Course 100 (1427 H).
- Member of the Examination Committee, Faculty of Science (1427 H).
- Member of the evaluation committee for various sectors of the Faculty of Science (1428 H).
- Member of the Organizing Committee for the National Conference in Chemistry " Recent trends in chemistry for the future and a better life" – Makkah (27 – 29 Rabia I, 1428 H).
- Member of the postgraduate Committee, Chemistry Department (1415 – 1425 H).
- Department Coordinator with Girls Section (1417 – 1419 H).
- Member of the Department Academic Advising Committee (1412 – 1413 H).
- Member of the Department Chemicals Committee (1413 – 1415 H).
- Member of the Department Committee in evaluating and developing the Laboratory Technician Diploma Program – Chemistry Department.
- Contribute to the development of postgraduate program in Physical chemistry Branch at Chemistry Department.
- Reviewing many Master Thesis within and outside the University.
- Reviewing many research projects within and outside the University.
- Secretary, Treasurer, Vice President and President of Saudi Students Club, Colombia, Missouri, USA (1986 – 1990).

Supervision of Master and Doctoral Thesis

A) Master Thesis

1- **Noha Wazan,** "Solvolysis rates of chloramines-T, chloramines-B and N-chlorosuccinimed in alcohol-water mixtures", **2000**.
2- **Asha M. Khnash,** "Preparation and characterization of some derivatives of acrylic polymer", **2003**.
3- **Kana Elsolamy,** "Physico-chemical studies of some Schiff bases derived from sulfa drugs", **2004**.
4- **Lena Alrehaly,** "Thermal decomposition studies on some N, N'-diaryl-4,4'-bipyridylium compounds", **2005**.

B) Doctoral Thesis

1- **Hanady M. Arafa,** " Spectroscopic and thermal kinetic studies on some new charge transfer compounds", **200x.**
2- **Asha M. Khnash,** "Protection of steel materials against corrosion by coating with conductive polymers", **200x.**

Books

- ✓ Chemistry for preparatory year students (2010) (ISBN:978-603-8001-63-9)
- ✓ General Chemistry laboratory (I) (2010) (ISBN:978-9960-654-91-1)
- ✓ Introduction to Laboratory Safety (2009)
- ✓ University Chemistry (2009) (ISBN:978-603-8001-26-4)
- ✓ Notes in Fundamental Chemistry (2008)

List of Publication

1- An Eco-friendly N-sulfonylation of amines using stable and reusable Zn-Al-hydrotalcite solid base catalysts under ultrasound irradiation, M. Mokhtar, T. S. Saleh, N. S. Ahmed, S. A. Al-Thabaiti and R. A. Al-Shareef, *Ultrasonics Sonochemistry*, 18 **(2011)** 172 – 176.

2- Preparation and characterization of silver nanoparticles by chemical reduction method, Zaheer Khan, S. A. Al-Thabaiti, A.Y. Obaid and A. O. Al-Youbi, *Colloids and Surfaces B:Biointerfaces*, 82 **(2011)** 513 – 517.

3- Micellar and salt kinetic effects upon the reaction MnO^{4-} + EDTA, M. A. Malik, S. A. Al-Thabaiti, A. O. Al-Youbi and Zaheer Khan, *Journal of Saudi Chemical Society*, *In press, Corrected Proof, Avaliable online 25 September 2010*.

4- MnO2 nanostructures of different morphologies from amino acids – MnO4- reactions in aqueous solutions, Zaheer Khan, S. A. Al-Thabaiti, A.Y. Obaid and Ziya A. Khan, *Colloids and Surfaces B:Biointerfaces*, 81 **(2010)** 381 – 384.

5-Effect of cetyltrimethylammonium bromide on the oxidation of phthalic acid by MnO^{4-} in aqueous medium, N. Ahmad, M. A. Malik, S. A. Al-Thabaiti, A.Y. Obaid and Zaheer Khan, *J. Dispersion Sci. Techn.*, 30 **(2010)** in press.

6-Polymer effect on the growth of silver nanoparticles in micellar media. A kinetic study, Zaheer Khan, S. A. Al-Thabaiti, E. H. El- Mossalamy, A.Y. Obaid and M. A. Malik, *J. Experimental Nanoscience*, **2010** in press.

7-Structural, magnetic and electrical properties of Ga-substituted NiCuZn nanocrystalline ferrite, M.A. Gabal, S.A. Al-Thabaiti, E.H. El-Mossalamy, M. Mokhtar, *Ceramics International*, 36 – 4 **(2010)** 1339-1346

8-Removal of chlorophenol from aqueous solutions by multi-walled carbon nanotubes: Kinetic and thermodynamic studies, M. Abdel Salam, M. Mokhtar, S.N. Basahel, S.A. Al- Thabaiti, A.Y. Obaid, *Journal of Alloys and Compounds*, in press corrected proof, Available online **2010**.

9-Copper Substituted Heteropoly acid catalysts for selective dehydration of Ethanol, Tarek T. Ali, S. A. Al Thabaiti, A. O. Alyoubi and M. Mokhtar, *Journal of Alloys and Compounds*, 496 **(2010)** 553-559.

10-Physico chemical studies for the formation of nano size silver particles, S.A.Al-Thabaiti, E.H. El- Mossalamy, F.M. Al-Nowaiser and Zaheer Khan, *International J. Nano Particles*, 2 **(2009)** 39 – 45.

11- Kinetics of oxidation of D-glucose by permanganate in aqueous solution

of cetyltrimethylammonium bromide, Maqsood A. Malik, S.A.Al-Thabaiti and Zaheer Khan, *Colloids and Surfaces A:Physicochemical and Engineering Aspects*, 337 **(2009)** 9 – 14.

12- Studies on the kinetics of growth of silver nanoparticles in different surfactant solutions, Zaheer Khan, S.A.Al-Thabaiti, E.H. El-Mossalamy and A. Y. Obaid, *Colloids and Surfaces B:Biointerfaces*, 73 **(2009)** 284 – 288.

13-Spectroscopic and kinetic studies of the molecular association between ferrocene-hydroxaniline Schiff bases and p-benzoquinones, S.A.Al-Thabaiti and Hanadi M. Arafa, *Material Science Research India*, 6 **(2009)** 285-294.

14-Synthesis, electrochemical and thermodynamic studies of ferrocenazomethin hydroxyl benzenes with p-benzoquinones derivatives, Hanadi M. Arafa and S.A.Al-Thabaiti, *Material Science Research India*, 6 **(2009)** 303 – 313.

15-Effect of macromolecule poly(vinyl alcohol) on the growth of cetyltrimethylammonium bromide stabilized Ag- nanoparticles, Zaheer Khan, Shaeel Ahmad Al-Thabaiti, E.H. El- Mossalamy and Abdullah Yousif Obaid, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 352 **(2009)** 31 – 37.

16-Chemical Modification of Muti-Walled Carbon Nanotubes Using Different Oxidizing Agents: Optimization and Characterization, S. N. Basahel, S. A. Al Thabaiti, A. Y. Obaid, M. Mokhtar, and M. Abdel Salam, , *International Journal of Nanoparticles*, 2 **(2009)** 221 – 229.

17-Rate of Decomposition N-chloramine disinfectant compounds in aqueous solutions, A. A. Samarkandy, S.A. AL- Thabaiti and A. A. El-Bellihi, Material Science Research India, 5 **(2008)** 219 – 226.

18-Formation and characterization of surfactant stabilized silver nanoparticles: A kinetic study, Shaeel Ahmed AL-Thabaiti, F.M. Al-Nowaiser, A.Y. Obaid, A.O. Al-Youbi and Zaheer Khan, *Colloids and Surfaces B: Biointerfaces*, 67 **(2008)** 230 – 237.

19-Formation and Decomposition of water soluble colloidal manganese dioxide during the reduction of MnO^{4-} by cysteine. A kinetic study, S.A.Al-Thabaiti, F.M.Al-Nowaiser, A.Y. Obaid, A.O. Al-Youbi and Z. Khan, *Journal of Dispersion Science and Technology*, 29 **(2008)** 1391-1395.

20-Electrochemical coating of stainless steel with multi-walled carbon nanotubes/polyaniline composite layer, Abou-Elhagag A.Hermas, Mohamed Abdel Salam, Salih S. Al-Juaid and S.A. Al- Thabaiti,

International Journal of Nan manufacturing, 4 **(2009)** 166 – 174.

21-Chemical Modification of Multi-Walled Carbon Nanotubes Using Different Oxidizing Agents: Optimization and Characterization, S. N. Basahel, S. A. Al Thabaiti, A. Y. Obaid, M. Mokhtar, and M. Abdel Salam, *International Journal of Nanoparticles*, 2 **(2009)** 200 – 208.

22-Modification of Surface and Catalytic Properties of Cu nanostructure Catalysts used in Methanol Synthesis and Steam Reforming, M.Mokhtar, S. N. Basahel, S. A. Al Thabaiti, *International Journal of Nanoparticles*, 2 **(2009)** 156 – 163.

23-Inhibition the pitting corrosion of 430 Stainles Steel by Dipyridinium Salts, A.A.Hermas, A.Y.Obaid, S.A.Al-Thabaiti, A.H.Qusti and F.M.Al-Nowaiser, *J. Applied Surface Science*, **(2009)**, *accepted and waiting for proof.*

24-Formation, characterization and stabilization of water-soluble colloidal MnO_2 in the oxidation of methionine, thiourea and thioacetamide by permanganate, Shaeel Ahmed AL-Thabaiti ,F.M.Al-Nowaiser ,A. Y. Obaid , A. O. Al-Youbi and Zaheer Khan; *J.Colloid and Polymer Science*, 285 **(2007)** 1479.

25-Radiation Polymerization of 4-(Acryloylamido)benzonitrile: Zinc and Copper Complexes, El-Sayed H. El-Mossalamy, Fawzia M., Shaeel A. Al-Thabaiti, Abdul O. Al-Youbi, Suliman N. Baschel and Abdulla Y. Obaid, *Monatshfife fër Chem.*, 138 **(2007)** 853.

26-Thermal decomposition kinetics of strontium oxalate, Al-Nowaiser, F.A.; Al-Thabaiti, S.A.; Al-Youbi, A.O.; Obaid, A.Y., Gabal, M.A., *Chemical Papers*, 61 **(2007)** 370.

27-Formation of $LaFeO_3$ and Thermal decomposition reactions in Lanthanum (III) oxalate-iron(II) oxalate Crystalline mixture, M.A.Gabal, S.S. Ata-Allah, S.N.Basahel, S.A.Al-Thabaiti and A.O.Al-Youbi ; *J. of Mater. Sci.*, 41 **(2006)** 7597.

28-Synthesis and characterization of some modified acrylic polymers, F. M. Al-Nowaiser, S. A. Al-Thabaiti, S.Basahel, A.M.Gad, A.H.Qisti and A.M.Ganash, *Material Science Research India*, 3 **(2006)** 141 – 146.

29-Synthesis, Spectroscopic and Thermal studies of some Sulfa Drugs Schiff bases and their Metal Complexes, F. M. Al-Nowaiser, S. A. Al-Thabaiti, A.O. Al-Youbi and G.A.Al-Sulami, *Material Science Research India*, 3 (2005) 1 – 6.

30-Solvent Effects on the Electronic Absorption Spectra and Dissociation Costants of some Sulfa Drugs. E.H.El-Mossalamy, S.A.Al-Thabaiti, F.M. Al-Nowaiser and Q.A.Al-Sulami, *Commun. Fac.Sci. Univ. Ank.: Series*

B, 51 **(2005)** 21 – 30.

31-Synthesis and Investigation of some polyesterurethanes Based on Hydroxy terminated polyesters; S.A.Al-Thabaiti; *J. KAU. Sci.*, 17 (2005) 65 – 76.

32-Indirect Electrochemical oxidation of Picolines: Ab-Intio Treatment, S.A. Al-Thabiti and F.M. Nowaiser, *J. KAU. Sci.*, 16 **(2004)** 23 – 31.

33-Molecular characterization studies and corrosion inhibitor on Oligomar With some transition metals, Shaeel .A. Al-Thabaiti and Fowzia M. Al-Nowaiser, *Pigment & Resin Technology*, 33 **(2004)** 15 – 20.

34-Charge transfer complexes of quinaldine-aryldene Schiff bases with flouranile and 2, 4-dinitrofluorobenzene, E.H. El-Mossalamy and Shaeel, A. Al-Thabaiti, *Journal of Heterocyclic communication*, 10 **(2004)** 209 - 216.

35-Thermal decomposition and Kinetic Studies of Some Indolyl Schiff Bases Iron Complexes, Shaeel A. Al-Thabaiti, *Journal of Applied Egyptian Science*, 19 **(2004)** 91 – 98.

36-Solvolysis Rates of Chloramine-T ,Chloramine-B and N-Chlorosuccinimide in Alcohol-Water Solution, El-H.M.Diefallah, S.A.Al-Thabaiti,A.A.El-Bellihi, F.M.Al-Nowaiser, A.A.Samarkandy and N.A.Wazzan, *Umm Al-Qura University Journal (Science-Medicine-Enginering)*, 16 **(2004)** 67 – 80.

37-Potentiality and thermodynamic studies on Indazol Schiff bases with some metal ions, E.H. El-Mossalamy and Shaeel, A. Al-Thabaiti, *Bulletin of Electrochemistry*, 19 **(2003)** 241 – 244.

38-Synthesis and Characterization of New Cobalt Polymeric Spinels, Shaeel A. AL-Thabaiti, *Communication Fac.Sci. Univ. Ank. :Series B*, 49 (2003) 5 – 14.

39-Synthesis and thermal studies of poly (N-acryloyl, N`-cyanoacetohyrazide) complexes with Co (II), Fe (III) and UO_2 (II) ions, E.H. El-Mossalamy and Shaeel A. Al-Thabaiti, *Journal of Applied Polymer Science*, 90 **(2003)** 3358.

40-Synthesis and Characterization of Indazol Schiff Bases Complexes With Fe(III), Co(II), Ni(II), Cu(II) and Zn(II) in Different Counter Ions, Shaeel .A. Al-Thabaiti, *Journal of Applied Egyptian Science*, 18 **(2003)** 550-558.

41-Preparation, spectroscopic investigation and thermodynamic studies of charge transfer complexes of aryl azo-dye with benzoquinones derivatives, E.H.El-Mossalamy S.A. Al-Thabaiti and F.M. Al-Nowaiser, *International Journal Chemistry*, 12 **(2002)** 279 – 286.

42-Polymerization of methylacrylate in the presence of some metal chlorides

and electrical properties of the polymer complexes, Shaeel.A.Al-Thabaiti, *International J. Chem.*, 11 **(2001)** 237.

43-Kinetic of thermal decompostion of Copper Acetate Monohydrate" A.Y.Obaid, A.O.Alyoubi, A.A.Samarkandy, S.A. Al-Thabaiti, S.S. Al-Juaid A.A.El-Bellihi, and El-H.M.Diefallah, *J. Thermal Analysis and Calorimetry*, 61 **(2000)** 985.

44-The Use of polyethylene Oxide-Sodium Thiocyanante Complexes as Corrosion Inhibitors for Aluminum, A.A.Samarkandy, S.A. Al-Thabaiti and A.M.Gad, *International J. Chem.*, 10 **(2000)** 177.

45-Transition State of some Pyridines, S.A. Al- Thabaiti and F.M.Al-Nowaiser, *Asian J. of Chemistry*, 14 **(2000)** 889.

46-Investigation of the electronic structure of Catecholamine Neurotransmitters (IV) Nuclear Magnetic Characteristics, A.A.Samarkandy, A.O.Alyoubi, S.G.Aziz, S.A.Al-Thabaiti and R.Hilal, *J. of Pharmaceutical Soc.*, **(1998)**.

47-Kinetic of Thermal decomposition of Nickel dimethylglyoxime" S.A. Al-Thabaiti. A.A.El-Bellihi, M.M.Moustafa, A. Y. Obaid, A.O. Alyoubi, A.A. Samarkandy and A.A. El-H.M.Diefallah. *J.of King Abdulaziz University (Science)*, 10 **(1998)** 103.

48-Effect of some Halogen-substituted N, N-diphyenyl 4, 4- bipyridylium salt on the dissolution of Al in HCl acid solution, A.Y.Obaid, S.A.Al-Thabaiti and A.A.Abdelfatah, *International J. Chem.*, 7 **(1997)** 121.

49-The Kinetic of Thermal decomposition of Nickel formate Dihydrate in Air, A.H.Qusti, A.A.samarkandy, S.A. AL-Thabaiti and El-H.M.Diefallah, *J. of King Abdulaziz University (Science)*, 9 **(1997)** 73.

50-Alkaline Hydrolysis of Isatin in Aqueous Organic Solvent, A.A.samarkandy, S.A. AL-Thabaiti and E.A. hamed and I. M. Sidahmed, *Alx. J. Pharm. Sci.*, 11 **(1997)** 121

51-Solvent effect on the kinetic of ring opening of Isatin, A. A. Samarkandy, S.A. AL-Thabaiti and E.A. Hamed and I. M. Sidahmed, *Alx. J. Pharm. Sci.*, 10 **(1996)** 161

52-The photocatlytic of H_2 from Molybdenum-Sulfur compounds loaded on TiO_2, L.lin and S.A. Al-Thabaiti, *Photochem. photobiol. A: Chem.*, 64 **(1993)** 93.

53-Photocatalytic Hydrogenation of acetylene by Mo_2 and Mo_3 Oxo-Species in Colloidal TiO_2 solution, S.A.AL-Thabaiti and R.R.Kuntz, *Langmuir*, 6 **(1990)** 743.

Conferences and Workshops

- 2nd Internationsl Conference on Science, Zagazeg University, Banha, Egypt, 1999 " *Thermal Decomposition of Zinc Acetate Dihydrate*".
- 8th Bin Sina International Conference in Chemistry, Assiut University, Luxor, Egypt, 2002 " *Solvolysis Rates of Chloramin Chloramine-B and N-Chlorosuccinimide in Alcohol-Water Solution*".
- 7th International Conference in Chemistry and Its Rule in Development, Mansora University, Sharm ElShaikh, Egypt, 2003 " *Physico-Chemical Studies And Corrosion Inhibitor On Oligomar Of Semicarbazide-Phethalic Acid (Oscpa) With Transition Metal*".
- International Conference on Chemistry for a Better Future, Cairo University, Egypt, 2004 " *Synthesis, potentiometric and thermal studies of some sulpha polymeric complex*".
- International Workshop on "Assessment effects of metal pollution on the environment", National Research Institute, Egypt, 2002.
- International Workshop of Recent Trends in Catalysis, Sharjah University, AUE, 2004 "*Effect of Li_2O doping on surface and catalytic properties of CuO/Co_3O_4 solids*".
- Participate in the Conference and Exhibition of Catalysis for Gulf Countries Council GCC, Public Authority for Applied Education and Training, Kuwait, 2006 "*Effect of doping ZrO_2 on the surface and Catalytic properties of CuO/Al_2O_3 system*".
- National Workshop organized by National Center for Measurement and Evaluation in Higher Education, Riyadh, KSA, 1426 H.
- Fulbright Scholarship, summer 1996, Missouri University, Colombia, USA.
- International Workshop on Hazardous Chemical Waste Recycling, Bahrain University, El-Manama, 1428 H.
- Workshop on "Nanotechnology research in universities the way towards achieving the vision of the Custodian of the Two Holy Mosques", King Saud University, 1428 H.
- 1st Saudi Conference for Science, King Fahd University of Petroleum and Minerals, 2001.
- 2nd Saudi Conference for Science, King AbdulAziz University, 2005.
- 3rd Saudi Conference for Science, "New Prospects in Science and Its Applications", King Saud University, 1428 H.
- 3rd International Conference on Research and Development in Pharmaceutical Field, Pharmaceutical Research and pharmaceutical

industries Division, National Research Institute, Cairo, Egypt, 2007.

Funded Research Projects

- Synthesis and Characterization of Polymer Complexes of 5-vinyl Salicylidene Anthranilic acid (VSA) with some Transition Metal Ions, (2004 – 2005).
- Synthesis and Thermal Behavior Studies of some New Polymers and their Metal Complexes and Its Application as Removal of Heavy Metal Ions from Aqueous Solution, (2005 – 2006).
- Effect of Some Organic Surfactants on Electrodeposition of Nickel from Nickel Chloride Solutions, (2006 – 2007).
- Preparation of some Derivatives Polyalkylenepolyamine Oligomers, (2007 – 2008).
- Passivation of Stainless Steel by Coating with Pply (o-phenylenediamine (PoPD), (2007 – 2008).
- Synthesis, Characterization of Metal Oxides Nanoparticles and Their Reaction with Biologically Active Compounds in Presence and Absence of Surfactants, (2007 – 2008).
- Modification of Surface and Catalytic Properties of Cu – nanoparticle Catalysts used in Methanol Synthesis and Steam Reforming. Funded by SABIC (2007 – 2008).
- Modification of the Structural, Magnetic and Electrical Properties of NiCuZn Ferrites Nanocrystalline, (2007).
- Modification and Characterization of Carbon Nanotubes and Their Application for Remediation of the Environemnt, (2007 – 2009).