

## Curriculum Vitae

### Dr. Bakhtyar Kamal Aziz

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### Personal Details

Age: 42	Date of Birth: 2/5/1970
Place of Birth: Al- Basrah \ Iraq	Nationality: Iraqi
Gender : Male	Marital status: Married

### Educational Qualifications

- 2005-2009 PhD in Physical chemistry – Clay chemistry and applications  
 University of Sulaimani \ College of Science – Chemistry Dept.  
 Thesis :*Characterization of some local clays and their improvements for industrial and environmental applications.*
- 2000 - 2002 Master of Science in Chemistry  
 University of Sulaimani \ College of Science – Chemistry Dept.  
 Thesis: *Kinetic and Mechanistic Study of Substitution Reactions of Trans-K[Cr(C<sub>2</sub>O<sub>4</sub>)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>].3H<sub>2</sub>O Complex by Amino Acids Ligands (Glycine, Alanine, Histidine and Arginine)*
- 1988– 1992 Bachelor of Science in Chemistry.  
 University of Salahadin \ College of Science – Chemistry Dept.
- 1982 – 1988 High School Secondary Certificate:  
 Roshinbeer Secondary School – Sulaimani \ Iraq

### Work Experience

- 2009-2012 \* Lecturer and Researcher/ chemistry department/ Sulaimani University (Quantum Chemistry 4<sup>th</sup> stage, Physical Chemistry 2<sup>nd</sup> Stage and Clay Chemistry 3<sup>rd</sup> stage)
- \* Invited lecturer at Garmian University/ Chemistry department: (Quantum Chemistry 4<sup>th</sup> stage, Radiation Chemistry 3<sup>rd</sup> Chemistry and Physical chemistry 3<sup>rd</sup> stage )
- \* Supervisor of Advanced research lab of Chemistry department.
- \* Supervisor of Glass blowing center at chemistry department.
- \* Member of college council
- \* Teacher's representative of college of Science.
- 2005-2009 Ph.D Student at Sulaimani University/ Chemistry Dept.
- 2002-2005 Assistant Lecturer  
 University of Sulaimani \ College of Science \Chemistry Dept.

- Teaching practical Physical Chemistry, practical Analytical Chemistry, Computer and practical General Chemistry.
  - Supervising graduation research projects for undergraduates.
  - Supervising NMR instrument Lab.
  - Supervising Glass Blowing Workshop.
- 2000– 2002 M.Sc student at University of Sulaimani \ College of Science \ Chemistry Dept.
- 1995– 2000 Assistant Researcher  
University of Sulaimani \ College of Science \ Chemistry Dept.

### Conferences

- 1- 2<sup>nd</sup> International Chemical and Environmental Engineering Conference (ICEEC 2011) ( Kuala Lumpur, Malaysia).
- 2- 1<sup>st</sup> conference on Darbandixan Dam lake water pollution, ( 2010), (Dardandixan, Sulaimani, Iraq)
- 3- The XIV ICC, The 14<sup>th</sup> International Clay Conference held in Castellaneta Marina, Italy during June 2009.
- 4- The 2<sup>nd</sup> Arab Chemistry Conference held in Amman-Jordan during march 2004.

### Workshopes

- 1- Science and Technology Workshop/ Seminar by PHYWE System GmbH& Co., Sulaimani University, 18<sup>th</sup> – 19<sup>th</sup> May 2010.
- 2- Better way to manage Safety at Workplace, Kurdistan institution for Strategic Studies & Scientific Research, Sulaimani, May 2012.

### Courses

- 2007      Advanced training course on 1D and 2D program on NMR instrument at BRUKER Company in Switzerland .
- 2005      Ion-chromatography and GC  
University of Sulaimani, Chemistry dept.
- 2003      Teaching Methods Training Course.  
University of Sulaimani \ College of Humanities
- 1999      Glass Blowing Training Course  
Sulaimani University, Glass blowing workshop.
- 1998      Computer Training Course  
Solidarity - Sulaimani
- 1988      Electronics training course  
Scientific Care Centre for Youth - Sulaimani

### Computer Skills

- Confident user of Microsoft Word, Excel, CS ChemOffice, and Power point .

## Research and Publications

- 1- The Kinetics of the hydrolysis of trans- $K[Cr(C_2O_4)_2(H_2O)_2].3H_2O$ , *Journal of Zankoy Sulaimani*, Vol.9A ,No. 1, Sept. 2006-08-15
- 2- Studies of amino acids adsorption on clay surfaces in different pH, *Ibn Al-Haitham Journal for pure and applied science*, Vol(20), 2007, (1).
- 3- Equilibrium and kinetic study of the reaction of Trans- $K[Cr(ox)_2(H_2O)_2].3H_2O$  with 4-aminoantipyrine, , *Ibn Al-Haitham Journal for pure and applied science*, Vol(19), 2006, (4A).
- 4- The Lability Of Water Exchange rate Of Trans- bis(oxalato) diaquo Chromate(III) Ion With Arginine By Trans-Effect Of Internal Conjugated Base Formation, *Kurdistan Academician Journal*, 2007,Vol(5A), No(1).
- 5- Equilibrium, kinetic and mechanistic studies of formation of Cis-mono(AA)bis(oxalate)chromate(III) complex( where AA is Glycine, Alanine and Histidine) in moderately acidic solution, *The Second Arab Chemistry Conference*, 21-23 April 2004, Applied science university, Amman, Jordan.
- 6- Spectroscopic studies of a new mixed ligand complex of Fe(III) in aqueous medium, *Ibn Al-Haitham Journal for pure and applied science*, Vol(22), 2009, (1), 115-125.
- 7- Acid activation and Bleaching Capacity of Some Clays for Decolourizing Used Oils, *Asian Journal of Chemistry*, Vol. 23, No. 6 (2011), 2449-2455.
- 8- Effect of Kaolin light concentration on optical characteristic of PVA films, *Asian Transactions on Science and Technology (ATST ISSN 2221-4283)*, Vol 01, Issue 04, Sept. 2011, p. 12-15.
- 9- Spectroscopic Studies of a New Mixed Ligand complex of Fe(III) with N,N-dimethyl-1,4phenylenediamine and Anthranilic Acid in Aqueous Media, *Asian Transactions on Science & Technology*, Vol. 2 (1), 2012.
- 10- Kaolin Light Concentration Effects on The Dielectric Properties of Polyvinyl Alcohol film, *International Journal of Science and Advanced Technology*, Vol.2 (1), 2012.
- 11- Kinetic and Equilibrium Comparison of The Complexation Reaction of Cis- and Trans- Forms of  $Cr(ox)_2(H_2O)_2.xH_2O$  With Alanine, *International Journal of Chemical and Environmental Engineering*, Vol.3(1), 2012.
- 12-

## Research Interests

- Waste Management
- Clay Chemistry and applications
- Clay polyoxo-cation nano-particles
- Clay polymer nano-composites
- Environmental pollution
- Recycling of waste oil
- Recycling of Bleaching clays
- Kinetics and Mechanisms of Inorganic Complexes