Syed Usman Ahmad

Born on 26th of June, 1980 in Islamabad

u_qau@hotmail.com

+92 321 5251797

CURRENT POSITION

4 May 2012 – Till date	**Dept. of Chemistry, Quaid-i-Azam University** *Visiting Faculty*	**Islamabad , Pakistan**
4 May 2011 – 3 May 2012	**Dept. of Chemistry, Quaid-i-Azam University** *Assistant Professor (Interim Placement)*	**Islamabad , Pakistan**

Courses

- Organometallic chemistry
- Environmental chemistry
- Industrial chemistry

EDUCATION

Apr 2007 - Feb 2011	**Free University** *PhD, Inorganic Chemistry*	**Berlin , Germany**
Sep 2002 - Aug 2004	**Quaid-i-Azam University** *M.Phil, Inorganic Chemistry*	**Islamabad , Pakistan**
Sep 2000 - Aug 2002	**Quaid-i-Azam University** *M.Sc, Inorganic Chemistry*	**Islamabad , Pakistan**
Apr 1998 - Mar 2000	**Punjab University** *B.Sc, Chemistry, Zoology, Botany*	**Lahore , Pakistan**

LANGUAGES

• English, German	Fluent
• Urdu, Punjabi	Native
• Arabic	Good knowledge

PROFESSIONAL AND RESEARCH PROFILE

Apr 2007 - Feb 2011 **Free University** **Berlin , Germany**

PhD Scholar

PhD thesis: Synthesis, structure and reactivity of well defined Stannoxanes, Indoxanes and Thalloxanes

- Utilized the bulky nature of terphenyl substituents for the kinetic stabilization of molecular stannoxanes, indoxanes and thalloxanes.
- The kinetically stabilized compounds were afterwards tested for their reactivity.

Nov 2005 - Nov 2006 **National Engineering & Scientific Commission** **Islamabad , Pakistan**

Assistant Manager

- Developed materials with dielectric and diamagnetic properties.
- Managed chemical and mechanical labs.

Apr 2004 - Oct 2004 **Dept. of Physics, Quaid-i-Azam University** **Islamabad , Pakistan**

Research Associate

- Worked on the synthesis of ferrite based magnetic nanoparticles through wet chemical routes.
- The nanoparticles were characterized by powder XRD and their magnetic properties were studied by Vibrating Sample Magnetometry

Jun 2003 - Aug 2004 **Dept. of Chemistry, Quaid-i-Azam University** **Islamabad , Pakistan**

M.Phil Researcher

M.Phil. Dissertation: Synthesis, Structural Elucidation and Biological Studies of Organotin (IV) Dithiocarbamates.

- Synthesized biologically active chlorodiorganotin piperidineditiocarbamate complexes
- Biological studies involved antibacterial, antifungal and leschminiasis bioassay of the prepared complexes.

Jun 2002 - Sep 2002 **Dept. of Chemistry, Quaid-i-Azam University Islamabad , Pakistan**

M.Sc Researcher

M.Sc. Project: Analysis of effluents from pulp and paper Industry.

- Performed various tests involved in the determination of water quality (determination of cations & anions, water quality parameters).

Instrumentation involved Atomic Absorption Spectrophotometry and UV-VIS Spectrophotometry.

PUBLICATIONS

---

1. Concomitant Reactivity of the m-Terphenylindium Dihydroxide [2,6-$Mes_2C_6H_3In(OH)_2]_4$ toward Carbon Dioxide and Ethylene Glycol.
   Ahmad, S. U.; Beckmann, J.; Duthie, A. *Organometallics* **2012**, *31*, 3802.
2. Intramolecularly coordinated diarylindium and diarylthallium chlorides [$(8\text{-}Me_2NC_{10}H_6)_2$ E]Cl (E = In, Tl) with essentially ionic structures
   Ahmad, S. U.; Beckmann, J.; *Main Group Met. Chem*., **2012**, *35*, 29.
3. Two Molecular Stannaindoxanes and One Molecular Indium Hydrogen Carbonate Cluster Comprising Trinuclear Oxygen-Bridged Structures.
   Ahmad, S. U.; Beckmann, J.; *Main Group Met. Chem*., **2012**, in press.
4. New Insights into the Formation and Reactivity of Molecular Organostannonic Acids.
   Ahmad, S. U.; Beckmann, J.; Duthie, A. *Chem. Asian J.* **2010**, *5*, 160.
5. Synthesis and Structure of Polynuclear Indoxanes and Thalloxanes Containing Bulky *m*-Terphenyl Substituents.
   Ahmad, S. U.; Beckmann, J. *Organometallics* **2009**, *28*, 6893.
6. Hexameric Methylstannoxyl Carbonate Ion $[MeSn(O)CO_3]_6^{6-}$. A Missing Link with a Drum-Type Structure.
   Ahmad, S. U.; Beckmann, J. Duthie, A. *Organometallics* **2009**, *28*, 7053.
7. Chloro-diorganotin(IV) Complexes of Pipyridyl Dithiocarbamate: Synthesis and Determination of Kinetic Parameters, Spectral Characters and Biocidal Properties.
   Shahzadi, S.; Ahmad, S.U.; Ali, S.;Yaqub, S.; and Ahmed, F. *J. Iranian Chem. Soc.* **2006**, *3*, 38.
8. Chlorodiphenyltin(IV) piperidine-1-carbodithioate.
   Ali, S.; Ahmad, S.U.; Rehman, S.; Shahzadi, S.; Parvez, M.; Mahzar, M. *J. Appl. Organomet. Chem.* **2005**, *19*, 200.
9. Chlorodimethyltin(IV) piperidine-1-carbodithioate.
   Ali, S.; Ahmad, S.U.; Shahzadi, S.; Rehman, S.; Parvez, M.; Mahzar, M. *J. Appl. Organomet. Chem.* **2005**, *19*, 201.

REFERENCES

Prof. Dr. Jens Beckmann

FB2 Biology / Chemistry, University Bremen**.**

+49 421 218 63160

j.beckmann@uni-bremen.de

Prof. Dr. Saqib Ali

Chairman, Dept. of Chemistry, Quaid-i-Azam University, Islamabad.

+92 51 9064 2130

drsa54@yahoo.com