**CURRICULUM VITAE**

Name: **Dr. Imtiaz-ud-Din**

Father’s Name: Malik Ali Bahadir

Date of Birth: April 20, 1960

Nationality: Pakistani

NIC No.: 34601-6326561-7

Present Address: **Associate Professor**,

Department of Chemistry

**Quaid-i-Azam University,**

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**Academic Qualification**

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| --- | --- | --- | --- | --- |
| **Degree** | **Year** | **Board/University** | **Percentage** | **Subjects** |
| **S.S.C.** | 1976 | BISE, Lahore | 73 | Physics, Chemistry, Mathematics |
| **F.Sc.** | 1979 | BISE, Lahore | 56 | Physics, Chemistry, Biology |
| **B.Sc.** | 1981 | University of the Punjab | 52 | Chemistry, Zoology, Botany |
| **M.Sc.** | 1984 | Quaid-i-Azam University, Islamabad | 65 | Chemistry |
| **M.Phil.** | 1987 | Quaid-i-Azam University, Islamabad | 80 | Inorganic/Analytical Chemistry |
| **Ph.D.** | 2004 | Quaid-i-Azam University, Islamabad | − | Inorganic/Analytical Chemistry |

**Title of the Ph.D. Thesis;**

Synthesis, Structural Characterization and Biological Studies of Organotin Carboxylates Containing Germanium.

**Awards**

- Research Productivity Award – **2010-11**, and **2003-04** on the basis of research achievements in the respective years.

- Merit Scholarship from Matriculation to Postgraduate Level

**Field of Specialization**

Inorganic / Analytical Chemistry

# Main Area of Research.

# Co-ordination Chemistry, Organometallics, and Analytical Chemistry.

# Professional Experience

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| --- | --- | --- |
| **Designation** | **Institution** | **Dates** |
| Lecturer | Govt. Jinnah Islamia College, Sialkot | 20th June 87 to 10th Sep 88 |
| Lecturer | Govt. Postgraduate College Asghar Mall, Rawalpindi. | 11th Sep 88 to 16th Apr 2003 |
| Assistant Professor | Govt. Postgraduate College Asghar Mall, Rawalpindi. | 17th Apr2003 to 31stJan.2009 |
| Allama Iqbal Open University Islamabad, Pakistan | 1st Feb.2009 to 31st Oct.2011 |
| Associate Professor | Govt. Postgraduate College Asghar Mall, Rawalpindi. | 1st Nov.2011 to  15th Nov.2011 |
| Associate Professor | Quaid-i-Azam University, Islamabad. | 16th Nov. to date |

# Research Experience

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| --- | --- | --- |
| **Designation** | **Institution** | **Duration** |
| Junior Research Assistant | Quaid-i-Azam University, Islamabad | 1985 – 1987 |
| **Ph.D. Research Scholar** | Quaid-i-Azam University, Islamabad | 1998 – 2004 |
| **Postdoctoral Research Fellow** | Quaid-i-Azam University, Islamabad | 01-09-2005 to 31-01-2009 |

**Department & University Services:**

**- As Programme Co-ordinator** for BS 4-year Chemistry programme, Allama Iqbal Open University Islamabad from 08-09-2009 to 31-11-2011

- **As Course Coordinator** (Developed the following courses of the Chemistry Department, Allama Iqbal Open University Islamabad during the period 2009-11)

S.No. Code Programme Title of the Course

1**. 4424** BS General Chemistry.

2**. 1700** M.Phil. Medicinal Chemistry.

3**. 1759** M.Phil. Structure Elucidation of Organic

Compounds by Spectroscopy.

4. **1799** M.Phil./ Ph.D Instrumental Methods of Analysis.

**HEC Approved Ph.D Supervisor:**

The name with key information has been posted on the HEC website, (**www.hec.gov.pk**) under the “List of Approved Supervisors”- Physical Sciences.

# Research Supervision

**1- Department of Chemistry, Allama Iqbal Open University Islamabad, Pakistan.**

**-** Guided and supervised **M. Phil. Chemistry students;**

**\*One** student completed research project**,** titled**, “Synthesis and Characterization of Germanium Substituted Propanoic Acids and Their Metal Derivatives.” (2010).**

**-** The research work of **three other students** is **in progress (2011---).**

- Guided **ten M.Sc. Chemistry** students for their project training works and completed their research assignments successfully (**2009-10**).

**2- Department of Chemistry, Quaid-i-Azam University Islamabad, Pakistan.**

* Three Students have registered Ph.D courses and will carry out research work under my supervision.

**As Reviewer (in Refereed Journals).**

1- ***The*** ***Chemical Society of Pakistan*** since 2008.

2*-* ***Inorganic Chimica Acta (Elsevier Editorial System)*** since *2009.*

**Service Training Courses As Resource Person**

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| **Title of the Training Course** | **Organized By** | **Dates** |
| ***In-Service College Teachers Training Programme*** | Punjab Directorate of Staff Development, Lahore at  Govt. Murray College, Sialkot | June 10–19, 2002 |
| ***Refresher Course in Inorganic Chemistry for College Teachers*** | Department of Chemistry, Allama Iqbal Open University, H-8, Islamabad. | April 21-28, 2006 |
| ***One day Workshop on Laboratory Safety and Security for College Teachers.*** | Department of Chemistry, Allama Iqbal Open University, H-8, Islamabad | November 24, 2010 |

**In-Service Training Courses As Participant**

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| --- | --- | --- |
| **Title of the Training Course** | **Organized By** | **Dates** |
| ***In service training course on chemical thermodynamics and kinetics*** | UGC Islamabad at UGC Campus, Khanspur, Murree | Jul 21–28, **1993** |
| ***In service training course for college teachers*** | Punjab Directorate of Staff Development, Lahore. | Oct 06–26, **1996** |
| ***Training workshop (new curriculum Inter-Level) of Master Trainers*** | Punjab Directorate of Staff Development, Lahore. | May 13 – June 1, **2002** |
| ***In service training course in Chemistry and Environment*** | HEC, Islamabad at HEC Regional Centre, Lahore | Oct 20–25, **2003** |
| ***Two Days Seminar on Polymers Industry*** | Department of Chemistry, Allama Iqbal Open University, Islamabad | April 13-14, **2007** |
| ***Atomic Absorption Spectrometry “the basic theory and recent trends”*** | Department of Chemistry, Allama Iqbal Open University, Islamabad | March 5 – 6, **2008** |
| ***4th National Seminar On***  ***Intellectual Property Rights and its Role in Economic Growth.*** | Patent Advisory Cell,  PCSIR Laboratories Complex, Karachi. | February 25, **2010** |
| ***Workshop On***  ***“Television/VideoScript Writing for AIOU Faculty members”*** | Institute of Educational Technology  Allama Iqbal Open University, Islamabad | May 10-17, **2010** |
| ***Workshop On***  ***“Management of Mercury and Mercury Containing Waste in Pakistan”*** | Ministry of Environment Government of Pakistan &  United Nations Environment Programme(UNEP)  Chemicals Branch | May 19, **2010** |

**Workshops/ Seminars Attended Outside Pakistan**

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| ***Workshop On***  ***“Chemical Safety and Security Officer Training”*** | Sandia National Laboratories, USA.  At Bangkok, Thailand | March 19- April 02 , **2010** |

**Visiting Professor, Department Of Chemistry at AIOU Islamabad(** From 2006 to 2008):

M.Sc. and M.Phil. / M.Phil. Leading to Ph.D. Chemistry courses;

Inorganic Chemistry- – II **(2582**), and

Organometallic Chemistry **(1755**).

**Computer Skill**

“Basic Information Technology Course” organized

by **Pakistan Computer Bureau**. (April 11 to May 14, 2005)

# Professional Affiliations

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| **Designation** | **Institution** | **Dates** |
| Vice President | Bue Ali Seena Chemical Society(Tutorial Group-Dr. Rashid )  Government College, Lahore. | 1979 – 1981 |
| **Lifetime Member** | The Chemical Society of Pakistan | Since 2002 |

**Total Impact Factor**: - 26.369 + Book Chapter Contribution.

LIST OF PUBLICATIONS

**BOOK CHAPTER**:

1. M, Mazhar and **Imtiaz-ud-Din,** Tin(II) Heterobimetallic and Oligometallic Derivatives, in *Tin Chemistry-Fundamentals, Applications and Frontiers,* A. Davies, M. Gielen, K. Pannell and E. Tiekink (Eds.), **John Wiley & Sons, U.K**. (2008) page 251-268. **ISBN** 9780470517710

RESEARCH PAPERS

1. S.U. Sheikh, **Imtiaz-ud-Din** and A. Ghafoor, Evaluation of the Thermal Stability of Cyclized Polymers-1, *Thermochimica Acta*, **113**, 01-06 (1987).

2. **Imtiaz-ud-Din**, M. Mazhar, S. Ali, S. Dastgir, K.C. Molloy and M.F. Mahon, Structure of 2-Methyl-3-phenyl-3-[(tri-p-tolyl)germyl]-propanoic Acid, *Main Group Metal Chemistry,* **25**, 315-316 (2002).

3. **Imtiaz-ud-Din**, M. Mazhar, S. Ali, S. Dastgir, K.C. Molloy and M.F. Mahon, Structure of Bis[3-tri-p-methylphenyl-2-methyl-3-phenyl-germylpropionato]-dibutyltin(IV), *Main Group Metal Chemistry,* **25**, 319 (2002).

4. K. Hans, M. Parvez, S. Mahboob, **Imtiaz-ud-Din**, M. Mazhar and S. Ali,Derivatives of Substituted-3-trichlorogermylpropionic Acid, *Acta Cryst.,* **C58**, m559 (2002).

5. **Imtiaz-ud-Din**, K.C. Molloy, M. Mazhar, S. Dastagir, S. Ali and M.F. Mahon, Some Tricyclohexyltin Carboxylates Containing Germanium: Synthesis, Spectral and Crystallographic Characterization, *Appl. Organomet. Chem.,* **17**, 781 (2003).

6. **Imtiaz-ud-Din**, M. Mazhar, S. Dastgir, M.F. Mahon and K.C. Molloy, Bis[3-(tri-p-tolyl)germyl-3-(o-tolyl)-propionato]dibutyltin(IV), *Appl. Organomet. Chem.,* **17**, 801 (2003).

7. **Imtiaz-ud-Din**, M. Mazhar, Khalid M. Khan, M.F. Mahon and K.C. Molloy, Studies of Bimetallic Carboxylates: Their Synthesis, Characterization, Biological Activity and X-ray Structure, *J. Organomet. Chem.,* **689**, 899 (2004).

8. **Imtiaz-ud-Din**, M. Mazhar, K.C. Molloy and Khalid M. Khan, Synthesis Structural Characterization of Some Germanium Substituted Chiral Diethyltin Derivatives, *J. Organomet. Chem.,* **691**, 1643(2006).

9. **Imtiaz-ud-Din**, M. Mazhar and K.C. Molloy, Triarylgermyl Substituted Chiral Triphenyltin Derivatives: Their Synthesis Characterization and X-Ray Crystal Structure, *Main Group Metal Chemistry,* **29**, 11(2006).

10. M.Khawar Rauf**,** A.Badshah, M. Bolte, and **Imtiaz-ud-Din**. 1-(2,6-Dichlorobenzoyl)-3-(2-chlorophenyl) thiourea toluene hemi solvate. *Acta Cryst.* **E62** (2006) o3553.

11. **Imtiaz-ud-Din**, M. Mazhar, S. Ali and Khalid M. Khan, Lower Homologues (Methyl, Ethyl) of Diorganotin Derivates of Germyl(Substituted)propanoic acids: Structural Elucidations and Biological Studies*, Natural Product Research*, **21**,749 (2007).

12. U. Salma, M. Mazhar, **Imtiaz-ud-Din**, and S.Ali, Germatranyl Substituted Mono-and Di-organotin(IV) Carboxylates: Synthesis, Characterization and Biological Activities, *Main Group Metal Chemistry*, **30**,259 (2007).

13. M.K. Rauf, M. Ebihara, **Imtiaz-ud-Din** and A. Badshah, Dicyclohexyl ammonium thiocyanate, *Acta Cryst.*, **E64**, 0366 (2008).

14. M. Khawar Rauf**,** Adeel A. Saeed, **Imtiaz-ud-Din,** A. Badshah, M. Bolte, and B. Mirza, “Synthesis, characterization and biological activities of some new organotin (IV) derivatives: crystal structures of [(SnPh3)(OOCC6H4OH)] and [(SnMe3)2(OOC)C6Cl4(DMSO)2] , ” *J. Organomet. Chem.,* **693,** 3043 (2008).

15. U. Salma, M. Mazhar, **Imtiaz-ud-Din,** S. Ali, and Khalid M.Khan, In Vitro Anti-leishmanial and Enzyme Inhibition Activities of Germatranyl and Silicon Incorporated Diorganotin Derivatives: Synthesis and Spectroscopic Properties, *J. Enz. Inhib. Med. Chem*., **24**, 413(2009)

16**.** M. Shahid, **Imtiaz-ud-Din**, M. Mazhar, Matt.Zeller and D. Hunter Allen,

[Bis(diphenylphosphino)methane-k2P,P]dichloridopalladium(II), *Acta Cryst.*, **E65,** m158(2009).

17. M. Shahid, **Imtiaz-ud-Din**, M. Mazhar, and K.C. Molly, “A Phosphine Complex of Copper(I ) Bromide as Single Source Precursor for the Aerosol-Assisted Chemical Vapour Deposition of Copper Phosphide *Inorganica Chimica Acta*, **362,** 3069 (2009**)**

18**.** M. Khawar Rauf, **Imtiaz-ud-Din**, A. Badshah, M. Gielen, M. Ebihara, D. de Vos and S. Ahmed, “Synthesis, Structural Characterization and *in vitro* Cytotoxicity and Anti-bacterial Activity of some Copper(I) Complexes with N,N′-disubstituted thioureas” *J. Inorg. Biochem*. **103,** 1135 (2009).

19. U. Salma, **Imtiaz-ud-Din,** M. Mazhar, and Khalid M. Khan, *Germatranyl Substituted* Organotin (IV) Carboxylates: Synthesis Spectroscopic Characterization and Biological Studies, *Medicinal**Chemistry* **6,** 543-548(2009).

20. S. Shams-ul-Islam, Moazzam H. Bhatti, **Imtiaz-ud-Din**, S. W. Ng, and Edward R.T. Tiekink. Catena-Poly [[triphenyltin (IV)]-µ2-(3-cyclohexylcarbamoyl) propanoato-*қ*2*O*1:*O*3*], Acta Cryst*., **E66**, m1266-m1267 (2010).

21. Adeel A. Saeed, M. Khawar Rauf**,** , **Imtiaz-ud-Din,** A. Badshah, M. Z. Akhtar and B. Mirza, Some Bioactive Organotin(IV) Derivatives With,4-Dichlorophenylacetic acid Synthesis, Spectroscopic Properties and X-Ray Structure of  
[Sn4(C4H9)8(C8H5O2Cl2)4O2], *Turkish J. Chem. Soc*.**34,** 109-118(2010).

22. **Imtiaz-ud-Din**, Raqiqt-ul-Rasool, Moazzam H. Bhatti, and S. W. Ng,

Catena-Poly [[triphenyltin (IV)]-µ- 2-(cyclohexylaminocarbonyl)-benzoato-*қ*2*O*1:*O*2], *Acta Cryst*., **E66**, m931 (2010).

23. Moazzam H. Bhatti, Uzma Yunus, **Imtiaz-ud-Din**, S. Shams-ul-Islam, and Wai-Yeung Wong, 2-[2-(1, 3-Dioxoisoindolin-2-yl)-acetamido] acetic acid,

*Acta Cryst*., **E66**, o2969 (2010).

24. M. Khawar Rauf, Masahiro Ebihara, Amin Badshah and **Imtiaz-ud-Din**,

1-Benzoyl-3-(4-n-butylphenyl)thiourea, *Acta Cryst*., **E68**, o120-o121 (2012).

25. M. Khawar Rauf, Masahiro Ebihara, Amin Badshah and **Imtiaz-ud-Din**,

1-Benzoyl-3-(2,4,5-trichlorophenyl)thiourea, *Acta Cryst*., **E68**, o119, (2012).

26. S. Ali, AA Altaf, A. Badshah, M.Tahir, **Imtiaz-ud-Din**, B Lal,and Shafiq Ullah, Synthesis, characterization and DNA binding studies of 3-nitrophenylferrocene, *Inorg. Chemical Acta* (submitted- 2012)**.**

26. S. Ali, A. Badshah, AA Altaf, **Imtiaz-ud-Din**, B Lal,and Khalid M. Khan, Synthesis of 3-ferrocenylaniline: DNA interaction, antibacterial and antifungal activity, *Medicinal Chem. Res.* (submitted- 2012)**.**