### CURRICULUM VITAE

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**MOHAMMAD AZAM**

**Academic Education:**

**2009**: PhD in Chemistry, Department of Chemistry, Aligarh Muslim University, Aligarh, India. “*Synthesis and Structural Characterization of Novel Coordination Compounds and Their Biological Significance’’*

**Professional Experience:**

**2010-Today**: Assistant Professor in Chemistry, Department of Chemistry, College of Science, King Saud University PO Box 2455, Riyadh 1151, KSA

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**Positions Held:**

**June-Aug 2015:** Visiting Professor, Department of Chemistry, School of Life Sciences, University of Sussex, Brighton, UK

**July 2014:** Visiting Researcher**,** Institute of inorganic Chemistry,University of Cologne, Germany

**Oct 2013:** Visiting Scientist,Chemistry Department**,** Gifu University, Japan

**Awards / Fellowships:**

**2011**: Awarded D.S. Kothari Post-Doctoral Fellowship**,** University Grant Commission, Govt. of India

**2010**: Awarded I.K.Y. Fellowship, Athens, Greece

**2007-2009**: University Research Fellowship funded by University Grant Commission, Govt. of India

**Research Grants:**

**May 2015**: Removal and disposal of toxic heavy metal ions using Date Palm Seeds: An Eco-friendly approach 14-ENV2458-02

**Feb 2015**: Group Project of Deanship of Scientific Research (RG-1435-091), King Saud University, Riyadh

**Journal Reviewer**

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| *J. Coord. Chem*  *Inorg. Chem. Chem.*  *Arabian. Journal of Chemistry,* | *Spectrochim. Acta Part A,*  *Journal of Molecular Structure,*  *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry* |

**Principal Research Interests**

Coordination Chemistry, Catalysis and Bio-inorganic Chemistry

**Research Publications:**

1. Pharmacophore hybrid approach of new modulated bis-diimine CuII/ZnII complexes based on 5-chloro isatin Schiff base derivatives: Synthesis, spectral studies and comparative biological assessment, M. Shakir, S. Hanif, M.A. Sherwani, O. Mohammad, **Mohammad Azam**, S.I. Al-Resayes, ***J. Photochem. Photobiol. B. Biol***.,157 (**2016)** 39-56
2. Phenoxy-bridged binuclear Zn(II) complex holding salen ligand: Synthesis and Structural Characterization, **Mohammad Azam**, S.I. Al-Resayes, ***J. Mol. Structure***, 1107 (**2016**) 77-81
3. Synthesis and Structural Characterization of Cd(II) and Hg(II) complexes derived from 3-aminoquinoline, **Mohammad Azam**, S.I. Al-Resayes, R. Pallepogu, ***Helv. Chim. Acta,*** 99 (**2016**) 1-5
4. Computational and anti-tumor studies of 7a-Aza-B-homostigmast-5-eno [7a, 7-d] tetrazole-3β-yl chloride, M. Alam , M.J. Alam, S.A.A. Nami, D.–U. Lee, **Mohammad Azam**, S. Ahmad, ***J. Mol. Structure***, 1108 (**2016**) 411-426
5. [Mononuclear Bis(3-aminoquinoline)Zn(II) complexes: Synthesis and Structural Characterization](http://www.sciencedirect.com/science/article/pii/S1319610315001404), **Mohammad Azam**, S.I. Al-Resayes, R. Pallepogu, F. Firdaus, M. Shakir, ***J. Saudi Chem. Soc***., 20 (**2016**) 120-126
6. Palladium complexes bearing dipyridyl ligand: Synthesis, Structural Studies and Applications in Heck reaction, I. Warad, **Mohammad Azam**, S.I. Al-Resayes, M.S. Islam, S.F. Haddad, S. Ahmed, ***Res. Chem. Intertermed***. 42 (**2016**) 379-389
7. [Synthesis and characterization of 2-substituted benzimidazoles and their evaluation as anticancer agent](http://www.sciencedirect.com/science/article/pii/S1386142515001274), **Mohammad Azam**, A.A. Khan, S.I. Al-Resayes, M.S. Islam, A. K. Saxena, S. Dwivedi, J. Musarrat, A. Trzesowska-Kruszynska, R. Kruszynski, ***Spectrochim. Acta Part A***, 142 (**2015**) 286-291
8. Novel Uranyl(VI) Complex incorporating propylene-bridged salen-type N2O2-Ligand: A Structural and Computational Approach**, Mohammad Azam**, S.I. Al-Resayes, G. Velmurugan, P.Venuvanalingam, J. Wagler, E. Kroke, ***Dalton Trans****.* 44 (**2015**) 568-57
9. [*cis*- & *trans*- isomerism in [Cl2Ru(dppb)N-N] complexes: Synthesis, structural characterization and X-ray crystal structure of dichloromethane solvated *cis*-diaminebis(diphenylphosphinobutane)ruthenium(II) complex](http://www.sciencedirect.com/science/article/pii/S0022286014008692), I. Warad, **Mohammad Azam**, M. Asad, S.I. Al-Resayes, A. I. Asadi, W.D. Wanrosli, A. Barakat, S. Jodeh,  M. Al-Noaimi, A. Abu-Obid, M. Al-Noaimi, ***J. Mol. Structure*** 1076 (**2014**) 724-729
10. Chiral anionic binuclear zinc complexes based on diaminocyclohexane ligand and their in vitro antiproliferative studies, **Mohammad Azam**, S.I. Al-Resayes, A.T.-Kruszynska, R. Kruszynski, A. Verma, U.K. Pati, ***Inorg. Chem. Commun***., 46 (**2014**) 73–80
11. Structural studies on Cd(II) complexes incorporating di-2-pyridyl ligand and the X-ray crystal structure of the chloroform solvated DPMNPH/CdI2 complex, I. Warad, **Mohammad Azam**, S.I. Al-Resayes, M.S. Khan,P. Ahmad, M. Al-Nuri, S. Jodeh, A. Husein, S.F. Haddad, B. Hammouti, M. Al-Noaimi, ***Inorg. Chem. Commun.,*** 43 **(2014)** 155-161
12. [Pd(II) complexes based on quinoline derivative: Structural Characterization and their role as a catalyst for hydrogenation of (*E*)-1-methyl-4-(2-nitrovinyl)benzene](http://www.sciencedirect.com/science/article/pii/S1386142513014443), **Mohammad Azam**, S. Islam, S.I. Al-Resayes, M.R. Siddiqui, A. T.-Kruszynska, R. Kruszynski, ***Spectrochim. Acta Part A*** 123 (**2014**) 1-6
13. Design and Structural Studies of Diimine/CdX2 (X = Cl, I) Complexes based on 2,2-dimethyl-1,3-diaminopropane ligand, I. Warad, A.A. Khan, **Mohammad Azam,** S. I. Al-Resayes, S.F. Haddad, ***J. Mol. Structure*** 1062 (**2014**) 167-173
14. Synthesis and Structural Characterization of Pd(II) complexes derived from perimidine ligand and their *in vitro* antimicrobial studies, **Mohammad Azam**, I. Warad, S.I. Al-Resayes, N. Alzaqri, M.R. Khan, R. Pallepogu, S. Dwivedi, J. Musarrat, M. Shakir, ***J. Mol. Structure*** 1047 (**2013)** 48-54.
15. Synthesis, Physico-chemical studies and in vitro antibacterial screening of Pd(II) complexes derived from thiosemicarbazone, **Mohammad Azam**, I. Warad, S. Al-Resayes, M. R. Siddiqui, M. Oves, ***Chem. Biodivert*.** 10 **(2013)** 1109-1119.
16. Novel Pd(II)-Salen complexes showing high *in vitro* anti-proliferative effects against human hepatoma cancer by modulating specific regulatory genes, **Mohammad Azam**, Z. Hussain, I. Warad, S. Al-Resayes, M.S. Khan, M. Shakir, A. T.-Kruszynska, R. Kruszynski, ***Dalton Trans.*** 41 (**2012)** 10854-10864
17. A novel Ru(II) complex derived from hydroxydiamine as a potential antitumor agent: Synthesis and Structural Characterization, **Mohammad Azam,** I. Warad, S. Al-Resayes, M. Shakir, M.F. Ullah, A. Ahmad, F.H. Sarkar, ***Inorg. Chem. Commun*.** 20 (**2012**) 252–258
18. Synthesis, Physico-chemical studies and Antioxidant activities of first row transition metal complexes incorporating perimidine ligand, **Mohammad Azam**, I. Warad, S. Al-Resayes, M. Zahin, I. Ahmad, M. Shakir, ***Z. Anorg. Allg. Chem****,* 638 (**2012)** 881-886
19. Template synthesis and spectroscopic characterization of novel 16 membered [N4] Schiff base macrocyclic complexes of Co(II),Ni(II),Cu(II) and Zn(II) ions: *In vitro* DNA binding studies, M. Shakir, S. Khanam, **Mohammad Azam**, M. Aatif, F. Firdaus, ***J. Coord. Chem***, 64 (**2011)** 3158-3168
20. Synthesis, spectroscopic characterization and catalytic significance of Pd(II) complexes derived from 1,1-bis(diphenylphosphinomethyl)ethane, I. Warad, **Mohammad Azam**, U. Karama, S. Al-Resayes, A. Aouissie, B. Hammouti, ***J. Mol. Structure,*** 1002 **(2011)** 107-112
21. Synthesis, Spectroscopic characterization and comparative DNA binding studies of Schiff base complexes derived from l-leucine and glyoxal, M. Shakir, N. Shahid, N. Sami, **Mohammad Azam**, A.U. Khan, ***Spectrochim. Acta Part A*:** 82**(2011)** 31-36
22. Synthesis, Spectroscopic studies and crystal structure of the Schiff base ligand L derived from condensation of 2-thiophenecarboxaldehyde and 3,3΄ diaminobenzi-dine and complexes with Co(II), Ni(II), Cu(II), Cd(II) and Hg(II). Comparative DNA binding studies of L and its Co(II), Ni(II) and Cu(II) complexes. M. Shakir, A. Abbasi, **Mohammad Azam**, A.U. Khan, ***Spectrochim. Acta Part A***: 79 (**2011**) 1866-1875
23. Synthesis, spectroscopic and electrochemical studies of N,N-bis[(E)-2-thienylmethylidene and its Cu(II) complex: DNA cleavage and generation of superoxide anion, M. Shakir, **Mohammad Azam**, M.F. Ullah, S.M. Hadi, ***J. Photochem. Photobiol. B: Biol****,* 104 (**2011)** 449-456
24. Synthesis, Spectroscopic Characterization and in vitro antimicrobial studies of Schiff base ligand, H2L derived from glyoxalic acid and 1,8-diaminonaphthalene and Co(II),Ni(II), Cu(II) and Zn(II) complexes, S.I. Al-Resayes, M. Shakir, N. Shahid, **Mohammad Azam**, A.U. Khan, ***Arabian J. Chem***., Accepted **2011 [In Press]**
25. Template synthesis and physic-chemical studies of 14-membered functionalized Pendant arm Schiff base Macrocyclic complexes of Co(II), Ni(II), Cu(II) and Zn(II): DNA binding studies on Cu(II), M. Shakir, **Mohammad Azam**, S. Naseem, A.U. Khan, ***Synth. React. Inorg-Metal Org. Nano-Met. Chem*,** 41(**2011)** 1056-1062
26. Synthesis, spectroscopic Characterization and in vitro Antimicrobial screening of 16-membered tetraazamacrocyclic Schiff base ligand and its complexes with Co(II),Ni(II),Cu(II) and Zn(II) ions, M. Shakir, S. Khanam, **Mohammad Azam**, A.U. Khan, F. Firdaus, ***Synth. React. Inorg-Metal Org. Nano-Met. Chem*,** 41 **(2011)** 979-986
27. Synthesis, Spectroscopic, thermal and antimicrobial studies of 12- and 14-memb-ered Schiff base ligands and their complexes with Fe(III), Co(II) and Cu(II) metal ions, F. Firdaus, K. Fatma, **Mohammad Azam**, M. Shakir, ***J. Coord. Chem***., 63 (**2010**) 3956–3968
28. Template synthesis and physic-chemical characterization of 14-membered tetraiminemacrocyclic complexes, [MLX2] [M= Co(II), Ni(II), Cu(II) and Zn(II)]: DNA binding study on  [CoLCl2] complex, F. Firdaus, K. Fatma, **Mohammad Azam**, S.N. Khan, A.U. Khan, M. Shakir, ***Spectrochim. Acta Part* *A***: 72 (**2009)** 591-596
29. Synthesis and spectroscopic studies on complexes of N,N-bis(-(2-pyridenecarboxaldimine)-1,8-diaminonaphthalene (L): DNA binding studies on Cu(II) complex, M. Shakir, **Mohammad Azam**, S. Parveen, A.U. Khan, F. Firdaus ***Spectrochim. Acta Part A***: 71 (**2009**) 1851- 1856
30. Template synthesis and physico-chemical studies of 14- membered hexamacrocyclic complexes with Co(II), Ni(II), Cu(II) and Zn(II): A comparative spectroscopic approach on DNA binding with Cu(II) and Ni(II) complexes, F. Firdaus, K. Fatma, **Mohammad Azam**, S.N. Khan, A.U. Khan, M. Shakir, ***Trans. Met. Chem***. 33 (**2008**) 467-473
31. Synthesis and physico-chemical studies on complexes of 1, 2-diaminophenyl-N,N′-bis(2-pyridenecarboxaldimine) (L): A spectroscopic approach on DNA binding studies on Cu(II) complex, M. Shakir, **Mohammad Azam**, Y. Azim, S. Parveen, A.U. Khan, ***Polyhedron***, 26 (**2007**) 5513-5518

**Book:**

**2011**: Novel Coordination Compounds and Their Biological Significance, **Mohammad Azam**, Lap Lambert Academic Publisher, ISBN: 9783845441511

Editorial Board member of Journal of Chemistry ISSN No Print 2349-7564

**Participation in Conferences and – Meetings**

1. March 2nd – March 5th **2014**: **Presented Paper** (**Invited Lecture**) in Annual Florida Heterocyclic and Synthetic Conferences, FloHet-2014 held at Gainesville, USA
2. March 2nd March 3rd , **2012**: Participated in National Conference on New VISTAS in Chemistry held at A.M.U. Aligarh, INDIA
3. Feb 24th – Feb 25th, **2010**: Participated in National symposium on Recent Trends in Chemical Sciences heldat AMU, Aligarh, India.
4. Feb 4th – Feb 7th**, 2010**: **Presentated Paper** (Poster) at 12th CRSI National Symposium in Chemistry and 4th CRSI-RSC symposium in Chemistry held at IICT and NIEPR, Hyderabad, India.
5. Feb 6th – Feb 8th, **2009: Presented Paper (Poster)** at 11th CRSI National Symposium in Chemistry on Feb 6th – Feb 8th, **2009** at NCL, Pune India
6. Feb 26th – Feb 28th,  **2008**: **Presented Paper** (**Oral**) at 26th Annual conference, Indian Council of Chemists held at Department of Chemistry, Dr. H.S. Gaur University, Sagar (M.P.) India
7. March 8th - March 10th, **2008: Presented Paper** (**Oral**) at National Symposium on ‘Emerging Trends in Advanced Chemistry’ at Centre for Advanced Studies, Department of Chemistry, University of Rajasthan, Jaipur

**PERSONAL DATA:**

Father’s Name Mohammad Hashim

Mothers Name Mrs. Tasleem Jahan

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