

Prof. (Tenured) Dr. Islam Ullah Khan

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Academic Qualification:

- Ph. D in Chemistry from Kyushu University, Fukuoka, Japan, 1993.
- Certificate in Japanese from Kyushu University, Fukuoka, Japan, 1989.
- M.Phil in Chemistry from University of Agriculture, Faisalabad, 1987.
- M.Sc in Chemistry from Quaid-e-Azam University, Islamabad, 1981.
- B. Sc from University of the Punjab, Lahore, 1978.

Postdoctoral Research:

- Institute of Materials Chemistry & Engineering Kyushu University, Fukuoka, Japan with Prof. Teruo Shinmyozu, 2004.
- Departement of Chemistry, Faculty of Science, Kyushu University, Fukuoka, Japan, with Prof. Takahiko Inazu, 1998.

Employment:

- First regular Vice Chancellor of University of Mianwali since 12-02-2021.
- Professor, University of Sialkot (01-01-2020 – 11-02-2021).
- Professor (TTS/Tenured), GCU Lahore (01-11-2005 – 29-09-2019).
- Professor (BPS), GCU Lahore (06-08-2003 – 31-10-2005).
- Associate Professor, Governement College, Lahore (01-05-2000 – 05-08-2003).
- Assistant Professor, Governement College, Lahore (15-10-1995 – 30-04-2000).
- Assistant Professor, Education Departement (Colleges); Govt of the Punjab (31-01-1989 – 14-10-1995).
- Lecturer, Govt of the Punjab, Higher Education Departement (31-01-1982 – 30-01-1989).

Administrative and Advisory Services:

- Dean, Faculty of Sciences at University of Sialkot (01-01-2020 – 11-02-2021).
- Dean, Faculty of Science and Technology, GCU Lahore (2nd Tenure) (30-12-2015 – 29-12-2018).
- Dean, Faculty of of Science and Technology, GCU Lahore (1st Tenure) (27-09-2012 to 26-09-2015).
- Look after charge of Vice Chancellor Office of GCU, Lahore (29-06-2013 – 30-07-2013, 20-06-2014 – 19-06-2014, 13-06-2015 – 12-07-2015).
- Chairman, Department of Chemistry, GCU Lahore (25-03- 2010 – 17-06- 2014).
- Convener of GCU Faculty Board, Chairman University Affiliation Committee, Convenor Dean's Committee, Austarity Committee, Service Statues Revision Committee and GCU Buisness Plan Committee, Convener, New Academic Programmes & Review Committee, Convener, Students Grievances Redressal Comittee, Chairman University Purchase Committee. Member of GCU Syndicate, Advanced Research Board, Academic Council, Finance and Planning Committee and University Discipline Committee (2009-2015).
- Appointed as Member Review Committee for the procurement of Lab Equipments for Punjab Agriculture, Food and Drug Authority (PAFDA) Lahore 2021.
- Appointed as Member Technical Committee of Punjab Forensic Science Agency since 2014 by Home Departemnt, Govt. of the Punjab.
- Convenor/Secretary, National Curriculum Revision Committee (Chemistry) of Higher Education Commission of Pakistan since 2013. Revised/updated and developed the curriulam of BS (Hons) and M. Phil/Ph. D for implementation in the universities of Pakistan in 2013 and 2018.

- Designed the Syllabus for Every Day Science and Chemistry papers for Federal Public Service Commission for its CSS examination in 2016.
- Designed the Syllabus for conduct of chemistry examinations for recruitment of lecturers and other staff by the Punjab Public Service Commission which was implemented in 2018.
- Convenor/Secretary, National Curriculum Revision Committee (Chemistry) of Higher Education Commission of Pakistan since 2013.
- Reviewer of National Research Program for Universities NRPU (National Research Program for Universities) of Higher Education Commission of Pakistan.
- Member EARB-GRC (Ethical Appeal Review Board/Grievances Redressal Committee of Higher Education Commission of Pakistan since Aug., 2021).

Selective Awards and Honors:

- Recipient of PCST (Pakistan Council of Science and Technology) RPA (Research Productivity Award); category “A” in 2012, category “A” in 2011 and category “B” in 2010.
- Recipient of Higher Education Commission of Pakistan’s Best University Teacher Award in 2007.
- Recipient of JASSO (Japan Student Service Organization) award for post Ph. D research at Institute of Materials Chemistry & Engineering Kyushu University, Fukuoka, Japan in 2004.
- Recipient of AIEJ (Association of International Education, Japan) award for Post Ph. D research at Kyushu University, Fukuoka, Japan in 1998.
- Recipient of MONBUKAGAKUSHO (Ministry of Science, Technology and Culture, Japan) research award for graduate studies at Kyushu University, Fukuoka, Japan in 1989–1993.

Academics, Research and Funding arranged:

- Teaching of courses related to chromatography, spectroscopic and electroanalytical techniques, forensic science and supramolecular chemistry at B. Sc (Hons), M. Phil/MS and Ph. D levels.
- Supervised research work of 15 Ph. D, 95 M. Phil/MS, 33 M. Sc and 28 B. Sc (Hons.) students. Research work of 02 Ph. D scholars is in progress.
- Published more than 300 research articles and reports in ISI approved journals with total impact factor of 225 with 2775 citations, h-index: 26 and i10-index: 88.
- In 2010, completed a GCU funded research project entitled “Chromatographic studies of selected β -Lactam antibiotics and Quinolone antibacterials and characterization of their stress induced degradation products” of worth Rs. 0.246 M.
- In 2006-2009, wrote and managed grant award of Rs. 37.329 million from Higher Education Commission of Pakistan for setting Materials Chemistry Laboratory at GCU.
- Completed HEC funded research project of 0.855 M on the Development and Validation of Liquid Chromatographic (LC) Methods for Cardiovascular drugs at GCU in 2012.
- In 2015, a grant of Rs. 1.7 million was approved by Higher Education Commission under National research programme for universities (NRPU) for research project entitled “Synthesis of synthetically challenging and biologically important nitrogen containing heterocyclic compounds”.

Selected Conferences, Workshops and Symposia

- Participated in five-day Leadership and Management Program organized by PHEC (Punjab Higher Education Commission) for newly appointed Vice Chancellors of Public Sector Universities from September 13-17, 2021 at Lahore.
- Contributed talk at Trans Mediterranean Colloquium on Heterocyclic Chemistry (TRAMECH IX), Fez, Morocco held from 22nd – 25th November, 2017. <http://tramech9.raidghost.com/index.html>.
- Contributed talk at 2nd Tunisian Chemical Society Conference on Coordination Chemistry organized by the Tunisian Chemical Society in collaboration with the Royal Society of Chemistry, Hammamet, Tunisia, held from 11-14th May, 2017. <http://www.sctunisie.org/2ndjcc/speakers.html>

- Contributed talk at ICAC 2015 1st International Conference on Applied Chemistry “Chemistry for Sustainable World” organized by Chemistry Department, Faculty of Science, King Abdul Aziz Universtiy, Jeddah, Saudi Arabia held from 17-18th November, 2015. <http://www.globaleventslist.elsevier.com/events/2015/11/1st-international-conference-on-applied-chemistry-icac-2015-18-19-november-2015-at-king-abdulaziz-university-jeddah-saudi-arabia/>
- Member of Organizing committee and Keynote speaker at “Fermenter studies and end product analysis by HPLC” workshop jointly organized by Chemistry department and Biotechnology department GC University Lahore on 29 –30th June, 2015.
- Chief Organizer of 1st International Conference on “Forensic Science and Justice” jointly organized by GC University Lahore and Punjab Forensic Science Agency, Lahore, Pakistan from 21 –24th October, 2014. <http://www.gcuforensic.com/1st-conference/>
- Contributed talk at “2nd Sino-Pakistan Bilateral Workshop on Chemical Sciences” jointly organized by Pakistan Science Foundation and China Science Foundation at Shanghai, China, 17-20th April 2006. http://www.sioc.ac.cn/gjil/gjhy/200604/t20060404_1750642.html.
- Contributed talk at “Mini-symposium on Nanochemistry” jointly organized by National commission on Nanotechnology and International Centre for Chemical Sciences HEJ Research Institute of Chemistry, University of Karachi, Pakistan, 8-9th Jan, 2006.
- Contributed talk at the “Annual Meeting of the Chemical society of Japan” held at Osaka University, Japan, April 1992.

Areas of Research:

- Syntheses, X-ray crystallographic studies and applications of new Metal–organic frameworks (MOFs).
- Supramolecular Chemistry – calixarenes: synthesis and inclusion properties
- Synthesis of new organic molecules of pharmaceutical importance.
- Development of novel HPLC and spectrometric methods for pharmaceutical and forensic analysis.
- Oxidative Stress studies using novel and contemporary analytical methods.

Research Publications:

No.	Authors, Publication Year, Title, Name of Journal, Volume, Page	ISI Impact Factor
1.	Z. Meng, C. G. Jones, S. Farid, I. U. Khan, H. M. Nelson, and K. A. Mirica (2021). Unraveling the Electrical and Magnetic Properties of Layered Conductive Metal-Organic Framework with Atomic Precision. <i>Angewandte. Chemie</i> . https://doi.org/10.1002/anie.202113569 .	15.34
2.	S. Farid, S. Ameen, S. Sharif, M, Tariq, I. A. Kundi, O. Sahin and M.H. Sayyad (2021). Facile solvothermal syntheses of isostructural lanthanide (III) formates: Photocatalytic, photoluminescent chemosensing properties, and proficient precursors for metal oxide. <i>Journal of Coordination Chemistry</i> , 1-20.	0.665
3.	S. Sharif, S. Zaheer, M. W. Mumtaz, O. Sahin, S. Ahmad and S. Zulfiqar (2021). Synthesis, Crystal Structures of Gadolinium (III) and Erbium (III) Complexes Derived from Pyridine-2, 6-Dicarboxylic Acid and Fluorescent Sensing of Picric Acid. <i>Russian Journal of Coordination Chemistry</i> , 47 (1), 95-104.	0.708
4.	R. Zafar, I.U. Khan, S. Sharif, S. Farid, H. Iqbal and S.I. Khan (2020). High Performance Liquid Chromatographic–Diode Array Detector Method for Simultaneous Determination of Aspirin, Caffeine and Ephedrine in Weight Loss Formulations, Human Plasma. <i>Journal of Analytical Chemistry</i> , 75 (12), 1589-1598.	0.855

5.	S. Pervaiz, S. Mutahir, I. Ullah, M. Ashraf, X. Liu, S. Tariq, B.J Zhou and M.A Khan (2020). Organocatalyzed Solvent Free and Efficient Synthesis of 2, 4, 5-Trisubstituted Imidazoles as Potential Acetylcholinesterase Inhibitors for Alzheimer's Disease. <i>Chemistry & biodiversity</i> 17 (3), e1900493.	2.039
6.	S. Sharif, I. U. Khan, O. Sahin, N. Jabeen, S. Ahmad and B. Khan (2019). Synthesis, crystal structure and magnetic properties of an octanuclear cerium (III) complex of pyridine-2,6-dicarboxylate. <i>Zeitschrift für Naturforschung B, A Journal of Chemical Sciences</i> . 74(3)b : 255–260.	0.961
7.	S. Hussain, X. Chen, W. T. A. Harrison, S. Ahmad, M. R. J. Elsegood, I. U. Khan and S. Muhammad (2019). Synthesis, Thermal, Structural Analyses, and Photoluminescent Properties of a New Family of Malonate-Containing Lanthanide (III) Coordination Polymers. <i>Frontiers in Chemistry</i> . doi: 10.3389/fchem.2019.00260.	4.115
8.	N. Kanwal, I. U. Khan, S. Sharif, E. Hussain, A. Mehmood and O. Sahin (2019). Efficient Syntheses, Crystal Structure and Thermal Properties of Gabapentin 4-Acetamido, 2-Mesitylene and 2,4-Dinitro Sulfonamides Derivatives. <i>Journal of Chemical Crystallography</i> . https://doi.org/10.1007/s10870-018-00765-2 .	0.699
9.	W. Azeem, P. John, M.F Nazar, M. Ashfaq, IU Khan, S. Sharif and A. Riaz (2018). Fixed-Dose Combination Antibiotics Interacting with a Quaternary Ammonium Disinfectant: Insights from Spectral and Chromatographic Measurements. <i>Journal of Solution Chemistry</i> , 47 (6), 1048-1059.	1.401
10.	S. Hussain, IU Khan, M.R.J Elsegood, N. Jabeen, M.N Tahir, S. Ahmad, S. Mutahir (2018). Synthesis and structural characterization of dinuclear cerium (III) and erbium (III) complexes of nicotinic acid or 2-aminobenzoic acid. <i>Polyhedron</i> . 151 , 452-457.	2.108
11.	T. U. Rehman, S. Riaz, I. U Khan, M. Ashraf, M. Bajda, A. Gawalska, M. Yar (2018). Novel pyridine 2, 4, 6-tricarbohydrazide thiourea compounds as small key organic molecules for the potential treatment of type 2 diabetes mellitus: <i>In vitro</i> studies against yeast α and β glucosidase and in silico molecular modeling. <i>Archiv der Pharmazie</i> . 31 (1): DOI: 10.1002/ardp.201700236.	1.994
12.	E. A. Hussain, N. Kanwal, I. U. Khan, S. Mutahir, M. A. Khan, M. Ahmed, A. Mahmood, O. Sahin, M. Akkurt, M. Yar (2017). Green and Facile Reaction of Gabapentin with Sulfonyl Chlorides to Synthesize Lactams and Sulfonamides Derivatives in Aqueous Medium, <i>Letters in Organic Chemistry</i> , 15(3) , 163 – 170.	0.730
13.	S. N Razzaq, M. Ashfaq, IU Khan, I. Mariam, S. S Razzaq and W. Azeem (2017). Simultaneous determination of dexamethasone and moxifloxacin in pharmaceutical formulations using stability indicating HPLC method. <i>Arabian Journal of Chemistry</i> . 10 , 321–328.	3.613
14.	S. N. Razzaq, M. Ashfaq, I. U. Khan, I. Mariam, S. S. Razzaq, G. Mustafa and M. Zubair (2017) Stability Indicating RP-HPLC Method for Simultaneous Determination of Gatifloxacin and Dexamethasone in Binary Combination. <i>Brazilian Journal of Pharmaceutical Sciences</i> . 53 (1): e15177.	0.56
15.	T. U. Rehman, I. U. Khan and S. Riaz (2017). Novel substituted 3-phenyl 1-(4-(5-bromopyridin-3-yl)-6-phenylpyrimidin-2-yl)-thiourea compounds as key small organic molecules for the potential treatment of type-II diabetes mellitus: <i>In vitro</i> studies against yeast α -glucosidase. <i>Journal of Medicinal Chemistry Research</i> . 26 (1): 1098-1106.	1.436

16.	T.U. Rehman, I. U. Khan, S. Riaz, and M. Yar (2017). An efficient synthesis of new bi-aryl pyridimine heterocycles: Potential drug candidates to treat Alzheimer's disease. <i>Arch. Pharm. Chem. Life Sci.</i> 350 (3-4), e1600304	2.043
17.	S. Mutahir, M. A. Khan, I. U. Khan, M. Yar, M. Ashraf, S. Tariq, R. Ye and B. Zhou (2017). Organocatalyzed and Mechanochemical Solvent-free Synthesis of Novel and Functionalized bis-Biphenyl Substituted Thiazolidinones as Potent Tyrosinase Inhibitors: SAR and Molecular Modeling Studies, <i>European Journal of Medicinal Chemistry</i> , 134 , 406-414	3.447
18.	S. Ahmad, S. Rehman, T. Ruffer, T. Khalid, A. A. Isab, A. R Al-Arfaj, M. Saleem, Ejaz, I.U Khan and M.A Choudhary (2017). Crystal structure and antimicrobial activity of a transplatin adduct of <i>N, N</i> , dimethylthiourea, trans-[Pt(NH ₃) ₂ (dmtu) ₂]Cl ₂ . <i>Monatshefte für Chemie - Chemical Monthly</i> , 148 (4), 669-674.	1.131
19.	W. Azeem, F. Nazar, I. U. Khan, A. Riaz and S. Sharif (2017) Spectral and chromatographic characterization of fixed dose combination norfloxacin and metronidazole interacting with cetyltrimethylammonium bromide. <i>Journal of Molecular Liquids</i> , 244 , 135–140.	3.187
20.	SN Razzaq, M. Ashfaq, I Mariam, I. U. Khan, S. S. Razzaq, G. Mustafa (2017). Stability Indicating RP-HPLC Method for Simultaneous Determination of Ciprofloxacin and Dexamethasone in Binary Combination. <i>Journal of Chilean Chemical Society</i> . 62 (3), 3572-3577.	0.48
21.	A.A. Sardar, A. Perveen, Z.D. Khan, A. Zereen, S. Farid and I. U. Khan (2016). <i>In vitro</i> antioxidant potential and free radical scavenging activity of various extracts of pollen of <i>Nelumbo nucifera</i> Gaertn. <i>Planta Med</i> , 81 (S01) 158.	1.99
22.	N. Kanwal, I.U. Khan, E. A. Hussain, S. Farid and O. Sahin (2016). Efficient Syntheses, Crystal Structure, Thermal and Biological Evaluation of Amlodipine 4-chlorobenzene, 4-chlorobenzoyl and 2, 5-dichlorobenzene sulfonamide derivatives. <i>Comptes Rendus Chimie</i> , 19 (5), 594-603.	1.652
23.	A. E. Ferao, F. Afzal, S. Aslam, I. K. Muhammad, Ejaz, I. U. Khan, M. Fettouhi, A. A. Isab and S. Ahmad (2016). Synthesis, Crystal structure and DFT Calculations of Bis (1, 3-diazinane-2-thione-κS) dicyanido disilver (I), [Ag (Diaz) 2]{Ag (CN) 2}], 110 , 299–304.	2.011
24.	A. Shams, I.U. Khan and H. Iqbal (2016). Analysis of salicylic acid, arbutin and corticosteroids, in skin whitening creams available in Pakistan using chromatographic techniques. <i>International Journal of Cosmetic Science</i> , 38 (4), 421-428.	1.377
25.	G. Mustafa, Z.U. Rehman, I.U. Khan, S. Ishtiaq, S. Hussain, M. N. Arshad and A. M. Asiri (2016). Novel 4-[5-{4-[(2-benzylidenehydrazine) carbonyl]phenyl}-3-(trifluoromethyl)-1H-pyrazol-1-yl] benzenesulfonamides: synthesis, crystal structure, and anti-inflammatory and ulcerogenicity studies. <i>Journal of Chemical Research</i> , 40 , 167-172.	1.106
26.	M. Nadeem Akhtar, I.U. Khan, Ejaz and T.A. Harrison (2016). Synthesis, crystal structure and biological activity of a cobalt (II) complex of <i>N, N, N', N'</i> -tetrakis (2-hydroxypropyl) ethylenediamine. <i>Transition Metal Chemistry</i> , 41 (3), 325-330	1.306

27.	S. Mutahir, J. Jończyk, M. Bajda, I. U. Khan, M. A. Khan, N. Ullah, M. Ashraf, Q.-ul-Ain, S. Riaz, S. Hussain and M. Yar (2016). Novel biphenyl bis-sulfonamides as acetyl and butyrylcholinesterase inhibitors: Synthesis, biological evaluation and molecular modeling studies. <i>Bioorganic Chemistry</i> , 64 , 13–20.	2.152
28.	S. Sharif, B. Khan, O. Sahin and I.U. Khan (2016). Lanthanide Complexes with Pyridine-2,6-Dicarboxylic Acid: Synthesis, Crystal Structure, Thermal and Magnetic Properties of $[\text{LnPDA})_2(\text{PDAH}_2)] \cdot (\text{DMAH})_2(\text{DMAH}0.5)_2$. <i>Russian Journal of Coordination Chemistry</i> , 42 (1). 56–65.	0.484
29.	S. Riaz, I. U. Khan, M. Bajda, M. Ashraf, A. Shaukat, T. U. Rehman, S. Mutahir, S. Hussain, G. Mustafa and M. Yar (2015). Novel pyridine-2, 4, 6-tricarbohydrazide derivatives: Pyridine sulfonamide as a small key organic molecule for the potential treatment of Type-II diabetes mellitus and Alzheimer's disease: in vitro studies against yeast α -glucosidase, acetylcholinesterase and butyrylcholinesterase. <i>Bioorganic Chemistry</i> , 63 , 64–71.	2.152
30.	S. Sharif, O. Sahin, B. Khan and I.U. Khan (2015). Hydrothermal synthesis, structural investigation and magnetic properties of 2D layered Lanthanide (Ln= Pr, Eu, Gd, Tb, and Er) coordination polymers possessing infinite 1D nanosized cavities. <i>Journal of Coordination Chemistry</i> , 68 (15), 2725-2738.	2.012
31.	Peter John, Waqar Azeem, Muhammad Ashfaq, Islam Ullah Khan and Syed Naeem Razzaq, (2015). Stability Indicating RP-HPLC Method for Simultaneous Determination of Piroxicam and Ofloxacin in Binary Combination, <i>Pakistan Journal of Pharmaceutical Science</i> , 28 (5), 1713-1721	0.682
32.	S. Mutahir, M. Yar, M. A. Khan, N. Ullah, S. A. Shahzad, I.U. Khan and R.A. Mehmood. (2015). Synthesis, characterization, lipoxigenase inhibitory activity and in silico molecular docking of biaryl bis (benzenesulfonamide) and indol-3-yl-hydrazide derivatives. <i>Journal of the Iranian Chemical Society</i> , 12 (6), 1123-1130.	1.087
33.	S. S. Batool, S. Ahmad, I. U. Khan, Ejaz and W. T. A. Harrison (2015). Structural characterization of a new copper (II) complex of 1, 10-phenanthroline and benzoate $[\text{Cu}(\text{phen})(\text{C}_6\text{H}_5\text{CO}_2)_2]$. <i>Journal of Structural Chemistry</i> , 56 (2), 387-391.	0.508
34.	A. Mahmood, I. U. Khan, R. L. Longo, A. Irfan and S. A. Shahzad (2015). Synthesis and structure of 1-benzyl-5-amino-1H-tetrazole in the solid state and in solution: Combining X-ray diffraction, ^1H NMR, FT-IR, and UV-Vis spectra and DFT calculations. <i>Comptes Rendus Chimie</i> , 18 (4), 422-429	1.713
35.	H. Sadaf, A. A Isab, S. Ahmad, A. Espinosa, M. M. Montoya and I. U. Khan (2015). Synthesis, crystal structure, theoretical calculations and antimicrobial properties of $[\text{Pt}(\text{tetramethylthiourea})_4][\text{Pt}(\text{CN})_4] \cdot 4\text{H}_2\text{O}$. <i>Journal of Molecular Structure</i> , 1085, 155–161.	1.602
36.	M. N. Arshad, T. Mahmood, A. F. Khan, M. Z. Rehman, A. M. Asiri, I. U. Khan, K. Ayub, A. Mukhtar and M. T. Saeed (2015). Synthesis, Crystal Structure and Spectroscopic Properties of 1,2-Benzothiazine Derivatives: An Experimental and DFT Study. <i>Chinese Journal of Structural Chemistry</i> , 34 , 1, 15–25.	0.507

37.	P. John, W. Azeem, M. Ashfaq, I.U. Khan and S.N. Razzaq (2015). Stability indicating RP-HPLC method for simultaneous determination of piroxicam and ofloxacin in binary combination. <i>Pak. J. Pharm. Sci</i> , 28 (5), 1713-1721.	0.404
38.	P. John, W. Azeem, M. Ashfaq, I.U. Khan, S.N. Razzaq and S.U.D. Khan (2015). Stability-indicating RP-HPLC method for simultaneous determination of methoxsalen and <i>p</i> -aminobenzoic acid in binary combination. <i>Bulletin of the Chemical Society of Ethiopia</i> . 29 (1), 27-39	0.577
39.	S. Hussain, I. U. Khan, W. T. A. Harrison, M. N. Tahir and S. Ahmad (2015). Crystal structures and characterization of two one-dimensional coordination polymers containing Ln ³⁺ ions and anthranilate (C ₇ H ₆ NO ²⁻) anions. <i>Journal of Structural Chemistry</i> , 56 (1), 126-133.	0.508
40.	S. Riaz, I. U. Khan, M. Ashraf, T. U. Rehman, A. Shaukat, S. B. Jamal, V. C. Duarte and M. J. Alves (2014). Novel pyridine-2,4,6-tricarbohydrazide derivatives: Design, Synthesis, Characterization and <i>in vitro</i> Biological evaluation as a- and b-glucosidase. <i>Bioorganic Chemistry</i> , 57 , 148–154.	2.152
41.	S. Hussain, I. U. Khan, M. Akkurt, S. Ahmad and M. N. Tahir (2014). Synthesis and Structural Characterization of Binuclear Ytterbium (III) Complexes with 2-Amino and 3-Amino Benzoic Acid. <i>Russian Journal of Coordination Chemistry</i> , 40 (9). 686–694.	0.484
42.	M. N. Arshad, W. A. Siddique, I. U. Khan and A. M. Asiri (2014). Ligand Free PdCatalyzed Cyclization- Influence of Steric Hindrance. <i>Journal of Chilean Chemical Society</i> . 59 (4) 2248-2251.	0.353
43.	A. Anwar. Sardar, Z. D. Khan, A. Perveen, S. Farid and I. U. Khan (2014). <i>In vitro</i> antioxidant potential and free radical scavenging activity of various extracts of pollen of <i>Typha domigensis</i> Pers. <i>Pakistan Journal of Pharmaceutical Science</i> , 27 (2), 279-284.	0.682
44.	M. Yar, M. Bajda, L. Shahzadi, S. A. Shahzad, M. Ahmed, M. Ashraf, U. Alam, I. U. Khan and A. F. Khan (2014). Novel synthesis of dihydropyrimidines for α -glucosidase inhibition to treat type 2 diabetes: <i>In vitro</i> biological evaluation and <i>in silico</i> docking. <i>Bioorganic Chemistry</i> . 54 , 96-104.	2.152
45.	M. Yar, L. R. Sidra, E. Pontiki, N. Mushtaq, M. Ashraf, R. Nasar and I. U. Khan (2014). Synthesis, <i>in vitro</i> lipooxygenase inhibition, docking study and thermal stability analyses of novel indole derivatives. <i>Journal of the Iranian Chemical Society</i> . 11 (2), 369-378.	1.087
46.	I. U. Khan, H. M. Rehman, and W. T. A. Harrison (2014). The substituent doesn't matter: A robust hydrogen-bonding pattern in six substituted benzenesulfonyl asparagine derivatives. <i>Zeitschrift Fur Kristallographie</i> . 229 (1), 53-60.	1.31
47.	I. U. Khan, S. N. Razzaq, I. Mariam, M. Ashfaq and S. S Razzaq (2014). Stability indicating RP-HPLC method for simultaneous determination of flurbiprofen and gatifloxacin in binary combination. <i>Quimica Nova</i> . 37 (2), 349-354.	0.661
48.	M. Ashfaq, H. Ahmad, H. I. U. Khan and G. Mustafa (2013). LC determination of Rosuvastatin and Ezetimibe in human plasma, <i>Journal of Chilean Chemical Society</i> , 58 (4), 2177-2181.	0.353
49.	M. N. Arshad, O. Sahin, M. Z. Rehman, M. Shaf, I. U. Khan, A. M. Asiri, S. B. Khan and K. A. Alamry (2013). Crystallographic Studies of Dehydration Phenomenon in Methyl-3-hydroxy-2-methyl-1,1,4-trioxo-1,2,3,4-tetrahydro-1- λ^6 -benzo[e][1,2]thiazine-3-carboxylate. <i>Journal of Chemical Crystallography</i> . 43 , 671–676.	0.503

50.	S. N Razzaq, M. Ashfaq, I. Mariam, I. U. Khan and S. S Razzaq (2013) Simultaneous RP-HPLC determination of sparfloxacin and dexamethasone in pharmaceutical formulations. <i>Brazilian Journal of Pharmaceutical Sciences</i> . 49 (2), 301-309.	0.264
51.	I. U. Khan, S. Sharif and O. Sahin (2013). Seven, eight and ten-coordinate cerium (III) with highly connected pyridine-2,4,6-tricarboxylate, oxalate and glycine ligands. <i>Journal of Coordination Chemistry</i> . 66 (17), 3113-3125.	2.012
52.	P. John, I. U. Khan, S. T. Sheikh, N. Gulzar and A. Rehman (2013). Improving Pitting Corrosion Resistance of Aluminium by Anodizing Process, <i>Journal of Chemical Society of Pakistan</i> . 35(1), 72-76.	0.345
53.	I. U. Khan, M. N. Arshad, O. Sahin, Mubashar-ur-Rehman, A. Munir, S. Humayun and A. M. Asiri (2013). Facile Synthesis and Crystal Structures of New Ammonium sulfonates (CA-DNBS and TEA-TMBS). <i>Chinese Journal of Structural Chemistry</i> . 32 (10), 1465-1474.	0.507
54.	N. Kanwal, O. Sahin, E. A. Husaain, I. U. Khan and O. Buyukgungor (2013). Synthesis, Crystal Structure and Antioxidant Potential of Di-(N-Cinnamyl) Fluoxetine Chloride. <i>Journal of Chilean Chemical Society</i> . 58(1) 1508-1512.	0.353
55.	M. Yar, L. R. Sidra, E. Pontiki, N. Mushtaq, M. Ashraf, R. Nasar, I. U. Khan, N. Mahmood, S. A. R. Naqvi, Z. A. Khan and S. A. Shahzad. (2013). Synthesis, in vitro lipoxigenase inhibition, docking study and thermal stability analyses of novel indole derivatives. <i>Journal of the Iranian Chemical Society</i> .	1.087
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Research Supervision of Ph. D/M. Phil/MS:

▪ Ph. D (in-progress)

Sr. #	Name of Scholar/Reg. No.	Thesis Title
1.	Sidra Tariq 2014-PHD-CHEM-16	Synthesis of <i>N</i> -Heterocycles using organocatalysts- An approach towards innovations in green chemistry.
2.	Samia Zaheer 2014-PHD-CHEM-21	Synthesis of Metal-organic frameworks (MOFs) comprising of Phenanthroline and Pyridine derived bridging ligands.

▪ Ph. D (completed)

Sr. #	Name of Scholar/ Reg. No.	Thesis Title
1.	Sidra Farid 2015-PHD-CHEM-17	Synthesis, computational studies and characterization of organic-inorganic hybrid materials for potential applications in electronic devices.
2.	Sania Pervaiz 109-GCU-PHD-CHEM-13	Catalytic synthesis of imidazoles and related <i>N</i> - heterocycles using eco-friendly and economic approach.
3.	Tanzeel ur Rehman 102-GCU-PHD-CHEM-12	Microwave assisted synthesis of biologically active aza-heterocycles
4.	Ghulam Mustafa 068-GCU-PhD-Chem-10	Synthesis, Characterization and Biological Evaluation of Substituted Pyrazoles.
5.	Sadaf Mutahir 09-GCU-PHD-CHEM-11	New method development for the synthesis of synthetically challenging and biologically important heterocycles.
6.	Sadaf Riaz 04-GCU-PHD-CHEM-11	Synthesis, characterization and biological evaluation of novel Benzimidazole Derivatives.
7.	Sajjad Hussain 92-GCU-PHD-CHEM-10	Synthesis characterization and thermal studies of some new lanthanides (III) complexes.
8.	Shahzad Sharif 56-GCU-PHD -CHEM-08	Synthesis and structural characterization of some lanthanide complexes derived from multidentate oxygen donor ligands
9.	Muhammad Shafique 23-GCU-CHEM-04	Synthesis and biological evaluation of Benzothiazine related Heterocyclic Molecules.
10.	Muhammad Nadeem Arshad 16-GCU-PHD CHEM-04	Synthesis, X-Ray studies and biological evaluation of thiazine related heterocycles
11.	Peter John 07-GCU-PHD –CHEM-03	Anodizing of Aluminum in Environmentally Acceptable Electrolytes

12.	Muhammad Ashfaq 13-GCU-PHD –CHEM-04	Development and Validation of Liquid Chromatographic Methods for Anti-Hyperlipidemic Drugs in Binary Combinations.
13.	Muhammad Nadeem Asghar 21-GCU-PHD-CHEM-04	Oxidative Stress Status Evaluation at Chemical and Biochemical levels using Novel/Modified and Contemporary Methods.
14.	Tanveer Hussain Bukhari 08-GCU-PHD-CHEM-04	Preparation of High Specific Activity Radio nuclei.
15.	Waseeq Ahmed Siddiqui 03-GCU-PHD-CHEM-03	Synthesis of Piroxicam-related Heterocyclic Molecules and Evaluation of their Biological Activities

▪ **M.Phil Chemistry**

1.	Zaheen Tara 849-MPHIL-CHEM-17	HPLC-DAD determination of selected Antidepressants in Pharmaceutical formulations and evaluation of Interactions with surfactants
2.	Zunaira Muhammad 840-MPHIL-CHEM-17	Synthesis, characterization and biological study of some novel ionic liquids.
3.	Sana Iftikhar 854-MPHIL-CHEM-17	Synthesis, Characterization and Study of Photo-catalytic Degradation of pyridine based metal complexes.
4.	Sadia Saif 807-MPHIL-CHEM-17	Efficient Synthesis and Characterization of novel organic compounds containing five member heterocyclic rings.
5.	Neelam Fareed 832-MPHIL-CHEM-17	Synthesis, Characterization and Photoluminescence applications of 3d metal coordination polymers derived from Pyridine-2,4,6 tricarboxylic acid.
6.	Anum Sabir 801-MPHIL-CHEM-16	New Neodymium metal complexes with Benzene-1,4-dioic acid and related ligands for photodegradation studies
7.	Maleeha Zafar 842-MPHIL-CHEM-16	Synthesis and Characterization of Calcium metal complexes derived from 1,3,5-Tricarboxybenzene and related ligands for photocatalytic studies
8.	Sadaf Hashmi 802-MPhil-CHEM-16	Synthesis of some new five membered Heterocyclic rings and Evaluation of their Biological Potential.
9.	Zoon Javed 2015-MP-CHEM-260	Efficient synthesis, characterization and evaluation of biological potential of some novel Indole based heterocyclic compound.
10.	Saima Ameen	Hydrothermal synthesis, structural investigation and biological properties of selected lanthanide coordination compounds.
11.	Mehwish Saleem 2015-MP-CHEM-243	Catalytic synthesis of some new five membered heterocycles and evaluation of their biological potential
12.	Madiha Tariq	Synthesis and structural analysis of some coordination complexes derived from selected dicarboxylate ligands.
13.	Waqar Ahmed	Synthesis and biological evaluation of novel oxadiazole derivative: A new class of thymidine phosphorylase inhibitors as potential anti- tumor agents
14.	Ammara Sabir 2014-MP-CHEM-375	Synthesis, characterization and biological study of some new heterocyclic ionic liquids
15.	Asia Ahemd 2014-MP-CHEM-391	Synthesis, spectral study and biological screening of some new chalcones containing aromatic carbonyl moieties

16.	Shaista Azmat 2013-MP-CHEM-39	Synthesis, characterization and properties of some new Metal Organic Frameworks (MOFs) based on <i>N</i> - Donor Ligands under Hydrothermal/Reflux Conditions in the Presence of Co-Ligands.
17.	Maryam Amjad 2013-MP-CHEM-32	Hydrothermal synthesis, characterization of condensed rare earth metal coordination polymers based upon <i>N</i> - and <i>O</i> -Donor Ligands.
18.	Attiya Zamir 2013-MP-CHEM-47	Hydrothermal synthesis, characterization of condensed rare earth metal coordination polymers using Heterocyclic Ligands.
19.	Tayyaba Tahira 2012-MP-CHEM-39	Synthesis, Characterization and Biological Evaluation of Some New Nitrogen containing heterocyclic compounds.
20.	Rabia Zafar 2012-MP-CHEM-47	Development and Validation of HPLC-PDA method for Simultaneous Determination of Aspirin, Caffeine and Ephedrine in Human Plasma and its application to <i>In-vitro</i> drug-drug Interactions.
21.	Salman Aziz 2012-MP-CHEM-38	Synthesis, characterization and biological evaluation of some novel Nitrogen containing heterocyclic compounds leading to Mannich reaction
22.	Ayesha Naseem 2012-MP-CHEM-40	Synthesis, characterization and biological evaluation of some new heterocyclic compounds containing 'N' and 'S'
23.	Alina Murtaza 149-GCU-BH-CHEM-07	Synthesis and structural studies of some transition metal complexes/supramolecular assemblies of pyridine derivatives.
24.	Sidra Farid 157-GCU-BH-CHEM-07	<i>In vitro</i> evaluation of antioxidant activity potential of <i>Typha domigensis</i> and <i>Hydrocotyl asiatica</i> by novel and contemporary methods
25.	Faiza Anwar 422-GCU-BH-06	Synthesis, polymorphic studies and characterization of novel co-crystals
26.	Sumaira Saleem 682-GCU-BH-05	Synthesis, characterization and structural analysis of some metal complexes based on oxygen donor ligands.
27.	Afia Moazzam 62- GCU-MPHIL-CHEM-10	Synthesis of new sulphonamides as lipoxygenase inhibitors
28.	H. Muhammad Raof Amin 54-GCU-MPhil-CHEM-10	Synthesis and structural studies of new transition metal complexes of pyridine derivatives
29.	H. Mubashar-Ur-Rehman 0488-GCU-BH-05	Synthesis, characterization and biological evaluation of some novel derivatives of <i>L</i> -Asparagine
30.	Muddasar Siddique 42-GCU-MPhil-CHEM-10	Synthesis of hydrazides and their biological study
31.	Waqas Rafique 44-GCU-MPhil-Chem-10	Tc ^{99m} labeling of <i>N</i> -[(benzoylamino)thioxyethyl] Amino acids and evaluation of their potential in diagnosis
32.	Nafeesa Mushtaq 46-GCU-MPhil-Chem-10	Synthesis of derivatives of Diethanolamine and study of their biological activities
33.	Lubna Shahzadi 642-GCU-BH-05	Synthesis, characterization and biological evaluation of nitrogen containing heterocycles
34.	Lala Rukh Sidra 48-GCU-MPhil-Chem-10	Synthesis of new Indol derivatives
35.	Naveeda Najaf 360-GCU-BH-05	Synthesis and X-ray crystallographic studies of novel polynuclear metal organic compounds.
36.	Rafia Shafiq 557-GCU-BH-05	Synthesis and structural studies of some new metal organic frameworks.
37.	Jevaria Rehman 380-GCU-BH-05	Evaluation of antioxidant activity of Canola seeds using Chlorpromazine Radical Cation.

38.	Muneeb Hayat Khan 0520-GCU-BH-05	Synthesis, Crystal structure determination and biological evaluation of some new derivatives of Tyrosine.
39.	Tahir Ali Sheikh 554-IND-CHEM-2007	Synthesis, structure studies and biological evaluation of some new derivatives of 1,3-diaminopropane.
40.	Muhammad Irfan Zubair 70-MPH-Chem-08	Synthesis and X-ray crystallographic studies of new metal organic frameworks based on bishydroxymethyl phenol oligomers.
41.	Shahzada Muhammad Sajid Jillani 0439-05-2006	Synthesis, structural and thermal studies of metal complexes derived from benzothiazole-2-yl-(Z)-2-methoxyamino-2-(2-aminothiazole-4-yl)thioacetate (MEAM)
42.	Abdul Rauf 53-MPH-Chem-08	3d and 4f metal complexes derived from pyridine-2,4,6-tricarboxylic acid
43.	Sajida Bibi 64-MPH-Chem-08	Synthesis of mixed metal complexes based on ligands multiple binding sites.
44.	Ifrah Naseer 72-MPH-Chem-08	Study of the role of co-ligands in the formation of high nuclearity metal ligand clusters
45.	Tayyaba Kosur 59-MPH-Chem-06	Simultaneous determination of Lovastatin and Ezetimibe in human Plasma using Liquid Chromatography
46.	Saira Bano 58-MPH-Chem-06	Development of Propionyl-promazine Hydrochloride Decolourization Assay for Antioxidant Potential of Indigenous Medical Plants/Herbs.
47.	Nazia Bano 54-MPH-Chem-06	Antioxidant Potential of Citrullus colocynthis (L.) and Artemisia absinthium by Novel and Existing Analytical Assay.
48.	Iram Zia 51-MPH-2005	Development of Modified ABTS decolorization assay for evaluation of Antioxidant activity of Clinical samples & Medicinal plants.
49.	Sadaf Iqbal 60-MPH-2005	Evaluation of Anti-oxidant Potential of Indigenous Medicinal plants used for Anti-hyperglycemic Effect.
50.	Shahzad Sharif 66-MPH-2005	Simultaneous determination of Potassium Clavulanate and Cefixime by using HPLC.
51.	Maryam Ahmad 64-MPH-2004	Removal of heavy metals from aqueous solution using residual Brewery's yeast.
52.	Tanveer Hussain Bukhari 08-PhD-Chem-04	Preparation of high specific activity radio nuclei.
53.	Muhammad Ashfaq 13-PhD-Chem-04	Novel Analytical Methods for anti-glaucoma drugs.
54.	Muhammad Nadeem Asghar 21-PhD-Chem-04	Development of Novel Decolorization assays their application to evaluate antioxidants and radical scrounging
55.	Muhammad Nadeem Arshad 16-PhD-Chem-04	Synthesis and Characterization of Novel Thiazolidinone.
56.	Muhammad Shafique 13-GCU-Chem-04	Synthesis and Characterization of Benzothiazine derivatives
57.	Muhammad Azim Khan Niazi 70-MPH-04	A study on Acid/Base catalyzed transesterification process of vegetable oils for Biodiesel production.
58.	Samina Bano 68-MPH-03	Spectrophotometric determination of alprazolam and lorazepam in pure and pharmaceutical formulations
59.	Naila Yaqoob 57-MPH-03	Scope of pyridinetricarboxylic acid in coordination chemistry
60.	Shakil Ahmad Shahid	Phosphating of aluminium at low temperature

	318-MPH-02	
61.	Sana Sabahat 310-MPH-02	Evaluation of anti-oxidant ability of indigenous medicines during type-II diabetes mellitus.
62.	Nargis Anwar 312-MPH-01	Monitoring of total aflatoxin growth in compound feed by HPLC method
63.	Samia Firdous 304-MPH-01	Effect of storage temperature and duration on total aflatoxin growth in indigenous feed ingredients by HPLC.
64.	Samia Ismaeel 316-MPH-2000	New asymmetric induction methods and its application to new drug synthesis
65.	Sajida Nasreen 314-MPH-2000	Study of charge transfer associations of Meloxicam (mobic) in visible region.
66.	Neelam Shahzadi Khan 311-MPH-2000	Tailored oligomers/polymers for information technology.

▪ **MS Pharmaceutical Chemistry**

1.	Sadaf Latif 0009-MSPC-2014	Method development and validation of antihypertensive drugs perindopril, indapamide, amlodipine, quinapril and ramipril by using reverse phase HPLC-PDA.
2.	Salma Pervaiz 2013-MS-CHEM(P)-16	Spectrophotometric quantification of undeclared steroids, analgesic and stimulants in Herbal Medicines available over the Counter in Pakistan
3.	Asma Maqbool 2013-MS-CHEM(P)-5	Spectrophotometric determination of corticosteroids in Skin Whitening Creams available over the counter.
4.	Fariha Arooj 2012-MS-CHEM(P)-12	Synthesis, Structural Studies biological evaluation of some new metal complexes
5.	Warda Tariq 2012-MS-CHEM(P)-18	Synthesis, characterization and biological evaluation of some new 5-membered heterocyclic compounds
6.	Syeda Alishba Bukhari 2012- MS-CHEM(P)- 21	Stability indicating RP-HPLC method development and validations for simultaneous estimation of L-ornithine, L-arginine, riboflavin sodium phosphate and nicotinamide from their combined pharmaceutical dosage forms
7.	Ayesha Munir 865-GCU-MSPC-11	Synthesis, characterization and biological activity of some novel derivatives of 2-amino, 6-chlorobenzoic acid. (in progress)
8.	Saba Humayun 866-GCU-MSPC-11	Synthesis, characterization and biological activity of some novel derivatives of 4-amino, 2-chlorobenzoic acid. (in progress)
9.	Samia Zaheer 171-GCU-BH-CHEM-07	Co-crystallization and polymorphism of different active pharmaceutical drugs (API) using different co-formers. (in progress)
10.	M.Sohail Sajjad Anjum 35-GCU-IC-06	Synthesis and in vitro biological evaluation of new sulfonamide derivatives
11.	M. Asim Khan 186-GCU-V-2003	Synthesis, characterization and biological evaluation of Benzidine and its derivatives
12.	Mussrat Amanat 13-GCU-MSPC-10	Synthesis, characterization and biological evaluation of derivatives of Malonic acid dihydrazide and ethyl-3-oxopropanate.
13.	Sadia Afzal 16-GCU-MSPC-10	Synthesis and biological evaluation of novel Diethanolamine derivatives.
14.	Gulam Mustafa 590-GCH-BH-05	Synthesis, Structural Studies and Biological Evaluation of some new derivatives of <i>p</i> -Aminobenzoic acid.
15.	Ejaz 559-GCU-IC-07	Synthesis & Structural studies of supramolecular complexes of Polyamines

16.	Sidra Mirza 575-GCU-BH-05	Synthesis, Structural Studies and Biological Evaluation of some new derivatives of Anthranilic acid.
17.	Tauqir Fatima -GCU-BH-05	Synthesis, characterization and biological activity of some new transition metal complexes synthesized from pyridine 2,6 dimethanol and triethanolamine.

▪ **MS Forensic Chemistry**

1.	Jaisha Habib 0005-MSFC-17	Screening of Novel Oxadiazole and their precursor Hydrazones for their latent Fingerprint Application.
2.	Ayesha Raheem	
3.	AnumShafique 14-MSFC-16	Screening of novel heterocycles for latent fingerprint applications
4.	Nadba Aziz 15-MSFC-16	Simultaneous HPLC-DAD determination and validation of illicit drugs in energy drinks
5.	Hira Habib Khan 37-MSFC-16	HPLC-DAD determination and validation of illicit drugs in cough syrup formulations
6.	Asher Athar 07-MSFC-16	Determination and validation of illicit drugs by HPLC-DAD in food supplement formulations
7.	Zertasha Ghazali 2013-MS-CHEM(F)-06	Detection of undeclared steroids and stimulant in Herbal and Homeopathic Medicines Manufactured and available over the counter in Pakistan using HPLC.
8.	Aima Shams 2013-MS-CHEM(F)-09	Evaluation of Corticosteroids in Skin Whitening Creams Available in Pakistan Using HPLC
9.	Haffsah Iqbal 01-MSFC-11	Development and validation of Illicit drug assay with HPLC-PDA
10.	Rana Atif Mehmood 09-GCU-MSFC-10	Synthesis of new potential bioactive compounds from Indol-3-Acetic acid and to determine their cytotoxicity.
11.	M. Misbah ul Rasool 180-GCU-V-2003	Statistical study of T. R.C (F.P) in Twins and Triplets
12.	Shumaila Younas 610-GCU-BH-05	Estimation of Aspirin, Salicylic acid, clopidogrel and Atrovastatin in quaternary formulation by liquid chromatography.