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Personal Profile

Dr. Ahmad Raza Ashraf

s/o Muhammad Ashraf

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Marital Status Married



Qualification	Degree	Year	Division	Institute
	PhD Chemistry (Inorganic/Analytical)	2019	1 st	Quaid-i-Azam University Islamabad, Pakistan / University of Waterloo, Canada
	MPhil Chemistry (Inorganic/Analytical)	2011	1 st	Quaid-i-Azam University Islamabad, Pakistan
	MSc Chemistry	2008	1 st	Bahauddin Zakariya University Multan, Pakistan
	BSc Bot., Zol., Chem.	2005	1 st	Bahauddin Zakariya University Multan, Pakistan
	FSc Pre-Medical	2002	1 st	BISE Multan
	SSC Science	2000	1 st	BISE Multan

- Professional Experience**
- **Assistant Professor (Jan 2023 – Present)**
Department of Chemistry, University of Education, Lahore (Multan Campus)
 - **Assistant Professor (Feb 2022 – December 22)**
Department of Chemistry, The University of Lahore, Lahore
 - **IPFP Fellow (Sep 2020 – Sep 2021)**
Department of Chemistry, University of Education, Lahore (Faisalabad Campus)
 - **Visiting Faculty Member (Sep 2019 – Mar 2020)**
Department of Chemistry, University of Sahiwal, Sahiwal
 - **Lecturer in Chemistry (Sep 2018 – Sep 2020)**
Department of Chemistry, Heritage International College, Arifwala
(Affiliated with GCUF, Teaching to BS/MSc classes)
 - **Research Associate (Oct 2012 – Dec 2012)**
HEC Pakistan Research Project No. 20-2154/NRPU/R&D/HEC/12-3698, QAU
Islamabad
- Awards / Scholarships**
- HEC Pakistan 5000 Indigenous Ph.D. Fellowship Program (Phase II).
 - International Research Support Initiative Program (IRSIP) of HEC Pakistan for foreign research visit to University of Waterloo, Canada.
 - Financial support by Professor Leonardo C. Simon for the extended period beyond six months, during research visit to University of Waterloo Canada under IRSIP.

- Achievements**
- University merit scholarship during all the four semesters of MPhil at QAU Islamabad.
 - Secured 2nd position in “Microteaching Competition” in National Faculty Development Program (NFDP) 2020 of National Academy of Higher Education (NAHE) Pakistan.
 - Won 3rd position in “Three Minute Thesis Competition” in NFDP 2020 of NAHE Pakistan.
 - First division throughout the academic career.
- Research Interests**
- Synthesis, characterization and properties evaluation of:
 - New monomers for polymerization (diamines)
 - High performance polymers (polyimides) and copolymers
 - Polyimide/nanocomposites
 - Synthesis and characterization of Schiff base ligands and transition metal complexes
- International Research Visit**
- Joined Professor Leonardo C. Simon’s research group at University of Waterloo Canada for one year from October 2015 to September 2016 under the International Research Support Initiative Program (IRSIP) of HEC Pakistan.
 - The HEC award was for six months however, Professor Simon facilitated the extension of visit by providing funding for the extended period.
- Journal Publications**
1. Sheza Muqaddas, Mohsin Javed, Sohail Nadeem, Muhammad Adeel Asghar, Ali Haider, Muhammad Ahmad, **Ahmad Raza Ashraf**, Arif Nazir, Munawar Iqbal, Abid Ali., Carbon Nanotube Fiber-based Flexible Microelectrode for Electrochemical Glucose Sensors, ACS Omega, Accepted (19-12-22).
 2. Arif Nazir, Shafiq ur Rehman, Mazhar Abbas, Dure Najaf Iqbal, **Ahmad Raza Ashraf** and Munawar Iqbal., Green synthesis and characterization of copper nanoparticles using Parthenium hysterophorus extract: Antibacterial and antioxidant activities evaluation. Chemistry International Volume, 8 (2022), 68-76.
 3. Wazirzada Aslam Farooq, Muhammad Sajjad Hasan, Muhammad Iftikhar Khan, **Ahmad Raza Ashraf**, Muhammad Abdul Qayyum, Nafeesah Yaqub, Mona A. Almutairi, Muhammad Atif and Atif Hanif, Structural, Optical and Electrical Properties of $\text{Cu}_{0.6}\text{Co}_x\text{Zn}_{0.4-x}\text{Fe}_2\text{O}_4$ ($x = 0.0, 0.1, 0.2, 0.3, 0.4$) Soft Ferrites, Molecules, Volume 26 (2021): 1399.
[DOI: 10.3390/molecules26051399](https://doi.org/10.3390/molecules26051399)
 4. Sohail Abbas, Tariq Javed, Shagufta Zafar, Muhammad Babar Taj, **Ahmad Raza Ashraf**, Muhammad Imran Din, Adsorption of crystal violet dye by using low cost adsorbent peanut husk, Desalination and Water Treatment, Volume 233 (2021) 387–398.
 5. Khalid Mahmood, Zareen Akhter, Muhammad Adeel Asghar, Bushra Mirza, Hammad Ismail, Faroha Liaqat, Saima Kalsoom, **Ahmad Raza Ashraf**, Muhammad Shabbir, Muhammad Abdul Qayyum & Vickie McKee., Synthesis, characterization and biological evaluation of novel benzimidazole derivatives, Journal of Biomolecular Structure and Dynamics, Volume 38, (2020) Pages 1670-1682.
[DOI: 10.1080/07391102.2019.1617783](https://doi.org/10.1080/07391102.2019.1617783)
 6. Khalid Mahmood, Zareen Akhter, Bushra Mirza, Hammad Ismail, Faroha Liaqat, Saima Kalsoom, **Ahmad Raza Ashraf**, Muhammad Abdul Qayyum., Synthesis, DNA Binding Affinity, Molecular Docking Study and Antitumor Activity of Cu(II), Pd(II) and Zn(II)

- Metal Complexes of Benzimidazole Schiff Base Ligand, Journal of the Chemical Society of Pakistan, Volume 41 (2019) Pages 903-916.
7. **Ahmad Raza Ashraf**, Zareen Akhter, Leonardo C. Simon, Charles Dal Castel, Abdeljalil Assoud, Polyimide derivatives of 4,4'-bis((4-aminophenoxy)methyl)-1,1'-biphenyl: Synthesis, spectroscopic characterization, single crystal XRD and thermal studies, Journal of Molecular Structure, Volume 1169 (2018) Pages 46-58.
[DOI: 10.1016/j.molstruc.2018.05.051](https://doi.org/10.1016/j.molstruc.2018.05.051)
 8. **Ahmad Raza Ashraf**, Zareen Akhter, Leonardo C. Simon, Vickie McKee, Charles Dal Castel, Synthesis of polyimides from α,α' -bis(3-aminophenoxy)-p-xylene: Spectroscopic, single crystal XRD and thermal studies, Journal of Molecular Structure, Volume 1160 (2018) Pages 177-188.
[DOI: 10.1016/j.molstruc.2018.01.098](https://doi.org/10.1016/j.molstruc.2018.01.098)
 9. Muhammad Shabbir, Zareen Akhter, **Ahmad Raza Ashraf**, Hammad Ismail, Anum Habib, Bushra Mirza., Nickel(II) and palladium(II) triphenylphosphine complexes incorporating tridentate Schiff base ligands: Synthesis, characterization and biocidal activities, Journal of Molecular Structure, Volume 1149 (2017) Pages 720-726.
[DOI: 10.1016/j.molstruc.2017.08.050](https://doi.org/10.1016/j.molstruc.2017.08.050)
 10. Muhammad Shabbir, Zareen Akhter, **Ahmad Raza Ashraf**, Michael Bolte, Sumbal Wahid, Bushra Mirza., Pharmacological evaluation of ONNO donor quadridentate Schiff bases, European Journal of Chemistry, Volume 8 (2017) Pages 46-51.
[DOI: 10.5155/eurjchem.8.1.46-51.1535](https://doi.org/10.5155/eurjchem.8.1.46-51.1535)
 11. Muhammad Shabbir, Zareen Akhter, Iqbal Ahmad, Safeer Ahmed, Maryam Shafiq, Bushra Mirza, Vickie McKee, Khurram Shahzad Munawar, **Ahmad Raza Ashraf**, Schiff base triphenylphosphine palladium (II) complexes: Synthesis, structural elucidation, electrochemical and biological evaluation, Journal of Molecular Structure, Volume 1118 (2016) Pages 250-258.
[DOI: 10.1016/j.molstruc.2016.04.003](https://doi.org/10.1016/j.molstruc.2016.04.003)
 12. **Ahmad Raza Ashraf**, Zareen Akhter, Vickie McKee, Muhammad Siddiq., Effect of polydimethylsiloxane incorporation on the properties of polyimides synthesized from newly designed α,α' -bis(2-aminophenoxy)-p-xylene. Express Polymer Letters, Volume 9 (2015) Pages 1001-1014.
[DOI: 10.3144/expresspolymlett.2015.90](https://doi.org/10.3144/expresspolymlett.2015.90)
 13. **Ahmad Raza Ashraf**, Zareen Akhter, Michael Bolte., (3-benzoylphenyl) (phenyl)methanone, Acta Crystallographica Section E: Structure Reports Online, Volume 67 (2011) Page o2432.
[DOI: 10.1107/S1600536811033344](https://doi.org/10.1107/S1600536811033344)

**International
Conference
Presentations**

1. **Ahmad Raza Ashraf**, Zareen Akhter, Muhammad Abdul Qayyum, Diamine Architecture Effects on Thermal Stability of Polyimides, International Conference On Biological Research & Applied Sciences (IBRAS), January 20-21, **2021**, Jinnah University For Women, Karachi, Pakistan.
2. **Ahmad Raza Ashraf**, Zareen Akhter, Muhammad Abid Rashid, Mian Habib Ur Rahman Mahmood, Improved Thermal Performance of Polyimides by Incorporation of Cardo and Trifluoromethyl Moieties, 1st International Industrial Chemistry Conference (IICC), Feb 26-28, **2021**, NED University of Engineering & Technology, Karachi, Pakistan.
3. Muhammad Abdul Qayyum, **Ahmad Raza Ashraf**, Danish Riaz, Multivariate Investigation of Toxic and Essential Metals in The Serum of Colorectal Cancer Patients (With Types and Stages) in Comparison with Controls, 1st International Industrial Chemistry Conference (IICC), Feb 26-28, **2021**, NED University of Engineering & Technology, Karachi, Pakistan.
4. M. Waseem Shahzad, Aftab Kareem, Zaman Ashraf, **Ahmad Raza Ashraf**, Synthesis of Biodegradable Plastics from Wheat Husk, 1st International Industrial Chemistry Conference (IICC), Feb 26-28, **2021**, NED University of Engineering & Technology, Karachi, Pakistan.
5. **Ahmad Raza Ashraf**, Zareen Akhter, Charles Dal Castel, Leonardo C. Simon, Dianhydride architecture effects on thermal and mechanical properties of polyimides, 37th Canadian High Polymer Forum, August 9-11, **2016**, Glen House Resort, Gananoque, ON, Canada.
6. **Ahmad Raza Ashraf**, Zareen Akhter, Charles Dal Castel, Leonardo C. Simon, Improvement of thermal and mechanical properties of polyimide using metal oxide nanoparticles, 16th Society of Plastics Engineers (SPE) Automotive Composite Conference and Exhibition (ACCE), September 7-9, **2016**, Michigan, USA.

**Professional
Trainings**

- Participated in National Faculty Development Program (NFDP) July-August 2020 of National Academy of Higher Education (NAHE) under the umbrella of HEC Pakistan.
- Completed the “Fundamentals of Project Management” course with 100% score offered by NAHE, HEC in collaboration with Oxon Global from 27 March 2021 to 03 April 2021.

**Courses Taught
(BS / M.Phil)**

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| • Inorganic Chemistry-I | • Advanced Coordination Chemistry |
| • Inorganic Chemistry-II | • Chemistry of Transition Elements |
| • Inorganic Chemistry-III | • Inorganic Material Chemistry |
| • Organo-Transition Metal Compounds | • Analytical Chemistry-I |
| • Homogeneous Catalysis | • Organic Chemistry-I |
| • Radio Nuclear Chemistry | • Reactive Intermediates and Photochemistry |
| • Inorganic Chemistry Laboratory | |
| • Environmental Chemistry | • Biochemistry-I (Structure and Functions of Macromolecules) |
| • Organic Polymers | |