

Dr. Sadia Mehmood

Postal Address:

Department of Chemical and Energy Engineering, Pak-Austria
Fachhochschule: Institute of Applied Sciences and Technology,
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Education

PhD in Physical Chemistry

August, 2016

Quaid-i-Azam University Islamabad

Split Research Conducted: **University of Alberta, Edmonton, Canada.**

Dissertation: Synthesis, Characterization and Applications of Noble Metal Nano Alloys,

Supervisor: Dr. Naveed Kausar Janjua (Associate Professor)

M-Phil Physical Chemistry

August, 2009

Quaid-i-Azam University Islamabad

MSc Physical Chemistry

February, 2005

Quaid-i-Azam University Islamabad

Work Experience

Assistant Professor

Feb, 2020 to date

Department of Chemical and Energy Engineering, Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology (PAF-IASST), Haripur, KPK, Pakistan

- Team member for establishing the department labs
- Member Board of Studies and Board of Faculty
- Member Allotment Comity of Foreign Faculty Guest Hostel

Assistant Professor (Visiting)**Sep, 2016 to Feb, 2020**

Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan

Key teaching responsibilities cover teaching several fundamental and advanced graduate and undergraduate courses in Chemistry, worth mentioning are Chemistry and Stoichiometry, General Chemistry, Physical Chemistry, Advance Physical Chemistry,

Lecturer (Visiting)**Feb, 2010 to July, 2015**

Department of Applied Physics, Federal Urdu University of Arts Science and Technology, Islamabad

Key teaching responsibilities cover teaching Physical Chemistry at undergraduate level.

Lecturer (Regular)**Sep, 2018 to Jan, 2020**

Federal Government College of Home Economics & Management Sciences F-7/2 Islamabad.

Additional Responsibilities and Administrative Experience

- Student Affairs Advisor at the Department of Chemical Engineering and Energy Engineering, Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology (PAF-IASST), Haripur, KPK, Pakistan (Oct 2020 to date)
- Member of Foreign Faculty Guest House Allotment Comity (Feb 2020 to date)

Research Interests

- Spectroscopy for molecular electronics
- Nanomedicine development for targeting cancer
- Electrochemical sensor fabrication
- Designing of heterogeneous catalysis for industrial application

Awards

- District distinction scholarships for Middle grades.
- Departmental scholarship for Master and M-Phil by Quaid-i-Azam University.
- Indigenous Award for Ph-D by Higher Education Commission of Pakistan.
- International Research Support Initiative Program/HEC Award at University of Alberta; Canada.

Journal Publications

- (1) **Sadia Mehmood**, Farhat Saira, Naveed Kausar Janjua and Hicham Fenniri. AuCu@Pt Nanoalloys for Catalytic Application in Reduction of 4-Nitrophenol. Journal of Spectroscopy, Volume 2016 (2016), 1-8. **IF = 1.376**
- (2) Naveed Kausar Janjua, Mahwish Jabeen, Mehrosh Islam, Azra Yaqub, Sana Sabahat, **Sadia Mehmood**, Misbah Mumtaz, Ayesha Mujtaba, Rizwan Raza, Ghazanfer Abbas. Electrochemical Properties of Barium Cerate Doped with Zinc for Methanol Oxidation, Journal of Chemical Society of Pakistan, 37 (2015) 850-858. **IF = 0.393**
- (3) Asifa Nigar, Naveed Kausar Janjua, Askari Gul, Zareen Akhtar, Sana Sabahat, **Sadia Mehmood**. Ferrocene derivatives: Potential anticancer material. Journal of Chemical Society of Pakistan, Volume 40 (2018), 1046-1053. **IF = 0.393**
- (4) Asifa Nigar, Muhammad Shabbir, Zareen Akhtar, Sana Sabahat, M.Qaiser Fatimi, Micheal Bolte, Iqbal Ahmad, Naveed Kausar Janjua, **Sadia Mehmood**. Synthesis, characterization, docking and electrochemical studies of nitroaromatic amides. Journal of Molecular Structure, Volume 1176 (2019), 791-797. **IF = 2.120**
- (5) Maria Shakeel, Tehmeena Maryum Butt, Maria Zubair, Humaira Masood Siddiqi, Naveed Kausar Janjua, Zareen Akhtar, Azra Yaqub, **Sadia Mahmood**. Electrochemical investigations of DNA-Intercalation potency of bisnitrophenoxy compounds with different alkyl chain lengths. Heliyon, Volume 6 (2020), 1-8. **IF = 1.650**

Skills and Expertise

Hands-on experience on various investigation Techniques

- UV-1700 Spectrophotometer (Shimadzu)
- GC Mass Spectrophotometer (PerkinElmer)
- NMR Spectrophotometer (Jeol)
- HPLC (Digital, Atago)
- Conductivity Meter (Jenway)
- Dynamic Laser Light Scattering
- Scanning Electron Microscopy SEM, TEM, HRTEM
- EDX
- XRD
- Raman Spectrometer
- Flow cytometer



(OPERATING SYSTEM) (Windows 7, Windows XP, & Linux)



OFFICE AUTOMATION (MS-OFFICE-2003-07) (Word, Excel & Power point)



GRAPHICS (Adobe Photoshop), **Program in Auto CAD & Primavera**



Hyperchem, Chemdraw, Digisim, and some other Chemistry related software

References

Dr. Muhammad Mujahid

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Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology, Khanpur
Rd, Mang, Haripur, Pakistan
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Professor Hicham Fenniri

Department of Chemical Engineering, North-eastern University, Boston, USA
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Dr. Naveed Kausar Janjua

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Dr. Muhammad Siddiq

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