

# CURRICULUM VITAE

## LECTURER OF PHYSICAL CHEMISTRY BACHA KHAN UNIVERSITY, CHARSADDA

**Specialization/Research: Physical Chemistry/Heterogeneous Catalysis**

## PERSONAL INFORMATION


**NAME;**

**Dr. Falak Naz**
**S/O**
**Gul Rehman**

**Religion:**
Islam

**Nationality:**
Pakistani

**Marital Status:**
Married

**CNIC # :**
17101-7821562-1

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VILLAGE Boguroshah P/O Behlola TEHSIL & DISTRICT Charsadda, KPK, Pakistan.

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## Academic Qualification

| Degrees/Certificates | Subjects | Passing Year | Div | Board/University |
|---|---|---|---|---|
| Ph.D (Chemistry) | Physical Chemistry | 2021 | | Bacha Khan University,Charsadda, Pakistan |
| M.Phil (Chemistry) | Physical Chemistry | 2017 | - | Bacha Khan University,Charsadda, Pakistan |
| M.Sc (Chemistry) | Physical Chemistry | 2008 | 1st | University of Peshawar ,Pakistan |
| B.Sc (Biological Science) | Chemistry, Zoology & Geography | 2006 | 1st | University of Peshawar, Pakistan |
| FSc (Pre-Medical) | Chemistry, Biology & Physics | 2004 | 1st | B.I.S.E ,peshawar, Pakistan |
| S.S.C (Science Group) | Chemistry, Biology & Physics | 2001 | 1st | B.I.S.E ,peshawar Pakistan |

## Professional Experience

| S.No | Designation | Institute | Duration |
|---|---|---|---|
| 01 | Lecturer | Govt Post Graduate College Buchal Kalan, Chakwal,Punjab,Pakistan | 2010-2011 |
| 02 | Lecturer | Bacha Khan University, Charsadda, KPK, Pakistan | 2011 till date |

# Research Publications

| S.No | Title | Journal |
|---|---|---|
| 01 | Investigation of photocatalytic behavior of undoped ZnO and Cr-doped ZnO nanoparticles for the degradation of dye | Inorganic and Nano-Metal Chemistry |
| 02 | Photocatalytic degradation of Eosin B dye in aqueous solution by cadmium oxide nanoparticles | Canadian Journal of Chemistry |
| 03 | Preparation, Characterization and Adsorptive Application of Chemically Modified Chitosan | Journal of Chemical Society of Pakistan |
| 04 | Radiation induced degradation of Congo red dye over unsupported and activated carbon supported strontium oxide nanoparticles | Iranian journal of chemistry and chemical engineering |
| 05 | Synthesis of barium oxide nanoparticles and its novel application as a catalyst for the photodegradation of malachite green dye | Applied Water Science |
| 06 | Biosynthesis of highly porous Ag/Bi/SnO2 nanohybrid material using seeds extract of Caesalpinia bonduc and their photocatalytic activity | Physica B: Condensed Matter |
| 07 | Eco-friendly Approach for Determination of Moxifloxacin in Pharmaceutical Preparations and Biological Fluids through Fluorescence Quenching of Eosin Y | Analytical Sciences |
| 08 | A novel approach for the photocatalytic degradation of binary dyes mixture using $SnO_2$ nanoparticles as a catalyst | Journal of Cluster Science |
| 09 | Comparative robustness and sustainability of in-situ prepared antimony nanoarchitectonics in chitosan/synthesized carboxymethyl chitosan in environmental remediation perspective | International Journal of Biological Macromolecules |
| 10 | A Comprehensive Mechanistic Antibacterial and Antibiofilm Study of Potential Bioactive ((BpA)2bp)Cu/Zn Complexes via Bactericidal Mechanisms against Escherichia coli | Molecules |
| 11 | A robust rationally designed multinarydouble perovskites microplates as an efficient visible-light photocatalyst | Surfaces and Interfaces |
| 12 | Solar light driven degradation of textile dye contaminants for wastewater treatment – studies of novel polycationic selenide photocatalyst and process optimization by response surface methodology desirability factor | Chemosphere |
| 13 | Robust iron-doped manganese oxide nanoparticles from facile fabrication to photo-catalytic degradation application of binary dyes mixture | Environmental Research |
|  | Enhancing the photocatalytic and biological potential of MnO nanoparticles through strontium doping | Journal of Molecular Structure |

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| 14 | Fabrication of Reduced Band Gap Copper Oxide Photocatalysts with Enhanced Dye Degradation under Visible Light | Journal of Materials Engineering and Performance |
| 15 | Photodegradation ability of electrospun Ag–Co/polysulfone nanocomposite nanofibers against acetamiprid pesticide | Iranian Polymer Journal |
| 16 | Highly Sensitive Fluorescence Quenching Method for Sulfasalazine Detection Using Fluorescein Probe: Application to Pharmaceutical Formulations and Biological Samples | Luminescence |

## M.Phil /Ph.D Students

## Supervised and Under Supervision

| S.No | Name | Thesis Title | Status |
|---|---|---|---|
| 01 | Wajidullah | Synthesis and Photocatalytic Activity of Activated Carbon Supported and Unsupported Cobalt Oxide Nanoparticles for Photodegradation of Alizarin Red Dye | Completed |
| 02 | Afsha Imran | Synthesis,Characterization and Photocatalytic Acitivity of Activated Carbon Supported and Unsupported Strontium Oxide Nanoparticles | Completed |
| 03 | GUL ASIMULLAH KHAN NABI | Simultaneous Photocatalytic Degradation of Binary Dyes Mixture using $Sno_2$ as Catalyst | Completed |
| 04 | Aysha Noman | Simultaneous Photocatalytic Degradation of Binary Dyes Mixture using $Mno_2$ as Catalyst | Completed |
| 05 | Ejaz Ahmad | Photocatalytic Degradation of Binary Dyes Mixture using Copper Oxide as Catalyst | Completed |
| 06 | Faryal | Degradation of Binary Dyes using Cobalt Oxides as Photocatalyst | Completed |
| 07 | Sajjad Hussain | Photocatalytic Decolorization of Eosin B Dye using Cao Nanoparticles | Completed |
| 08 | Irshad Ahmad | Kinetics Study for the Photocatalytic Degradation of Dye Contaminants by Zno/$Mnbi_2o_4$ Catalyst under Visible Light | Completed |
| 09 | Muhammad Idrees | Fabrication of Bimetallic Copper-Cobalt Sulfide and Its Application as a Catalyst | Completed |
| 10 | Nazish Ijaz | Synthesis and Catalytic Application of SnO2-NiO Binary Nanocomposite for the Degradation of Dye Pollutants | Completed |
| 11 | Ahmad Faraz | Fabrication of Perovskite Structured Sodium Barium Stannate Photocatalyst for the Degradation of Antibiotic Under Visible Light | Completed |
| 12 | Sadaf Afzal | Robust Nickle-Zinc Sulfide from Facile Fabrication to Catalytic Detoxification Application of Pesticides Pollutants | Completed |

## SEMINARS:

**Attended at least ten chemistry seminar at national level**

## RESEARCH EXPERIENCE

**Working experience of UV,IR, CHNR,AAS, TGA, and all modern chromatographic techniques**

## LANGUAGES:

**English Urdu Pashto (Mother Tongue)**

## COMPUTER SKILS

**MS Office Net surfing Origin software**

## GAMES:

**Cricket**

## HOBBIES:

**Recitation of HOLLY QURAN Study of Urdu Poetry Books**