

# Dr. Saima Naz

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## Introduction

I am keen to embark on a career where I can serve the research group in a challenging and dynamic environment towards a successful career by making the best out of my professional abilities and interpersonal skills. Qualified for a challenging and decision-making assignments. I see myself as an active contributor to a team of dedicated and ambitious people teaching and working on projects that involve blend of Zoology and thereby enhance my knowledge and personality.

## Work Experience

- **2019 – present** : Assistant professor, University of Education  
Lahore, Multan Campus, Pakistan
- **2018- 2019**: Lecturer/ Visiting, UAF-sub campus Burewala
- **2018- 2019**: Lecturer/ Visiting, UAF-sub campus Toba Taik Singh
- **2017- 2018**: Assistant professor, Bahauddin Zakaryia University,  
Multan Pakistan
- **2016-2017**: Assistant professor (IPFP) Bahauddin Zakaryia  
University, Multan Pakistan
- **2012-2013**: Science Teacher/ Principal BPS (09), Government M  
C Girls Primary School 219 R.B, Faisalabad

- **2013** : Lecturer/ Teaching Assistant, UAF-Community College PARS, Faisalabad
- **2010-2011**: Internship/ Examination Officer, Executive District Officer (Education) Faisalabad
- **Research Scholar in Department of Chemistry & Biochemistry, University of Agriculture, Faisalabad** from 27<sup>th</sup> September 2007 to 20<sup>th</sup> August 2008.
- **Research Scholar in Department of Chemistry, University of Agriculture, Faisalabad** from 7<sup>th</sup> September 2014 to continue 9<sup>th</sup> February 2016.

## Education

### PhD in Chemistry

- **University of Agriculture Faisalabad, Pakistan  
Department of Chemistry**

**Major:** Analytical Chemistry

**Session:** 2012-2016

**Thesis:** "Downstream approaches for pure biofine chemicals and aroma substances from *Cannabis sativa* essential oil"

### M. Phil in Chemistry

- **University of Agriculture Faisalabad, Pakistan  
Department of Chemistry**

**Major:** physical Chemistry

**Session:** 2009-2011

**CGPA:** 3.69/4.00

**Thesis:** " Determination of antioxidant and antimicrobial potential of *Zizyphus jujube* leaves

### Master in Chemistry

- **University of Agriculture Faisalabad, Pakistan  
Department of Chemistry**

**Major:** Chemistry

**CGPA:** 3.42/4.00

**Session:** 2006-2008

**Thesis:** Effect of Gamma radiation on the dyeing of cotton fabric by using *Eucalyptus camaldulensis* Bark powder.

**Bachelor in Science**

➤ **Punjab University, Pakistan**

(Govt. College for Women Madina Town, Faisalabad, Pakistan)

**Major:** Chemistry, Botany, Zoology

**Marks:** 526/800 (65.75 %)

**Session:** 2004-2006

**Intermediate**

➤ **BISE, Faisalabad**

( Punjab College for Women Faisalabad )

**Major:** Pre-Medical

**Marks:** 843/1100 (76.63%)

**Session:** 2001-2004

**Matriculation**

➤ **BISE, Faisalabd**

(Govt M C Girls High School Azafi no 1 Faisalabd)

**Major:** Science

**Marks:** 670/850 (78.70%)

**Session:** 1999-2000

**Techniques and  
Instrumental Skills**

- Gas Chromatography (GC-FID).
- Gas Chromatography-Mass Spectrometry (GC-MS).
- Liquid Chromatography-Mass Spectrometry (LC-MS).
- Analytical, Semi Preparative, Normal and Reverse Phase-High Performance Liquid Chromatography (NP-HPLC & RP-HPLC).
- Column Chromatography (CC).
- Flash Chromatography (FC).
- Nuclear Magnetic Resonance Spectrometer (300, 500 and 900 MHz NMR).
- Gel Electrophoresis.
- UV-Visible Spectrophotometer.
- Microtitre Plate Reader.
- Atomic Absorption Spectrophotometer (AAS).
- Analytical and Pilot scale Hydro, Steam, Microwave assisted distillation extractor.
- Pilot scale Supercritical Fluid CO<sub>2</sub> Extractor
- Vacuum fractionation

### **Research Projects completed**

- Downstream approaches for pure biofine chemical and aroma substances from "*Cannabis sativa* essential oil"
- Isolation, characterization and pharmacological potential of bioactive compounds from plant sources"
- Determination of antioxidant and antimicrobial potential of *Zizyphus jujube* leaves
- Effect of Gamma radiation on the dyeing of cotton fabric by using *Eucalyptus camaldulensis* Bark powder.

## Research Publications

1. Abid Ali, Muhammad Yasir, Muhammad Idrees Jilani, Sanila Shoaib, Muhammad Latif, Aftab Ahmad, **Saima Naz**, Farheen Aslam, Munawar Iqbal, Arif Nazir. Chemical Composition and in vitro Evaluation of Cytotoxicity, Antioxidant and Antimicrobial Activities of Essential Oil Extracted from Myristica Fragrans Houtt. Polish Journal of Environmental Studies. 30 ( 02) 2021. 2021/3/1 (IF. 1.69)
2. Waseem Ahmed, Rafia Azmat, Ayaz Mehmood, Abdul Qayyum, Rasheed Ahmed, Sami Ullah Khan, M Liaquat, **Saima Naz**. The analysis of new higher operative bioactive compounds and chemical functional group from herbal plants through UF-HPLC-DAD and Fourier transform infrared spectroscopy methods and their biological activity with antioxidant potential process as future green chemical assay. Arabian Journal of Chemistry 14 (2), 102935. 2021/2/1 (IF. 5.165)
3. Saima Noreen, Ghulam Mustafa, Sobhy M Ibrahim, **Saima Naz**, Munawar Iqbal, Muhammad Yaseen, Tariq Javed, Jan Nisar. Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) prepared via green route and adsorption efficiency evaluation for an anionic dye: kinetics, isotherms and thermodynamics studies. Journal of Materials Research and Technology 9 (3), 4206-4217. 2020/5/1 (IF. 5.039)
4. Saima Noreen, Ushna Khalid, Sobhy M Ibrahim, Tariq Javed, Ambreen Ghani, **Saima Naz**, Munawar Iqbal. ZnO, MgO and FeO adsorption efficiencies for direct sky Blue dye: equilibrium, kinetics and thermodynamics studies. Journal of materials research and technology 9 (3), 5881-5893. 2020/5/1 (IF. 5.039)
5. R Arshad, TH Bokhari, T Javed, IA Bhatti, S Rasheed, M Iqbal, A Nazir, **S Naz**, MI Khan, MKK Khosa, M Zia-ur-Rehman. Degradation product distribution of Reactive Red-147 dye treated by UV/H<sub>2</sub>O<sub>2</sub>/TiO<sub>2</sub> advanced oxidation process. Journal of Materials Research and Technology 9 (3), 3168-3178. 2020/5/1 (IF. 5.039)
6. M Iqbal, M Fatima, T Javed, A Anam, A Nazir, Q Kanwal, Z Shehzadi, MI Khan, J Nisar, M Abbas, **S Naz**. Microwave assisted synthesis of zinc vanadate nanoparticles and photocatalytic application. Materials Research Express 7 (1), 015070. 2020/1/20. (IF. 1.620)
7. S Parveen, IA Bhatti, A Ashar, T Javed, M Mohsin, MT Hussain, MI Khan, S Naz, M Iqbal. Synthesis, characterization and photocatalytic performance of iron molybdate (Fe<sub>2</sub> (MoO<sub>4</sub>)<sub>3</sub>) for the degradation of endosulfan pesticide. Materials Research Express 7 (3), 035016. 2020/3/16. (IF. 1.620)

8. Tariq Mahmood Ansari, Shazia Shaheen, Suryyia Manzoor, **Saima Naz**, Muhammad Asif Hanif. Litchi chinensis peel biomass as green adsorbent for cadmium (Cd) ions removal from aqueous solutions. *Desalination and Water Treatment* 173, 343-50. 2020/1/1. **(IF. 1.254)**
9. Saliha Nazir , Dure Najaf Iqbal, Hina Daud, Ambreen Ghani , Shagufta Nasir , **Saima Naz**, and Erum Akbar Hussain, "Green Synthesis Characterization and Thermotropic Behaviour of O-Linked Glycopyranosides of Phenolic Esters" *Journal of Chemistry*, Volume 20, 2020/7/31., **(IF. 3.591)**
10. Fouzia Anjum, Muhammad Shahid, Muhammad Idrees Jilani, Sadaf Oranab, Saqib Farooq, Arif Nazir, **Saima Naz**, Munawar Iqbal. Evaluation of antioxidant potential and cytotoxic behavior of different varieties of *Allium sativum*. *Polish Journal of Environmental Studies* 29 (6). 2020/8/5 **(IF. 1.69)**
11. Altaf Hussain, Mirza Nadeem Ahmad, Fatima Jalal, Muhammad Yameen, Sadia Falak, Saima Noreen, **Saima Naz**, Arif Nazir, Shan Iftikhar, Gul Afshan Soomro, Munawar Iqbal. Investigating the Antibacterial Activity of POMA Nanocomposites. 2019/11/1. *Polish Journal of Environmental Studies* 28 (6) **(IF. 1.69)**
12. Arslan Muhammad, Manzoor Suryyia, Tariq Mahmood Ansari, Yar Ahmad, **Naz Saima**, A Yousaf, Yasmin Ghazala. Peach resin coated silica particles for Imidacloprid removal as a greener approach to water remediation. *Desalination and Water Treatment* 109, 169-175. 2018 **(IF. 1.254)**
13. **Saima Naz**, Muhammad Asif Hanif, Haq Nawaz Bhatti, Tariq Mahmood Ansari. Impact of Supercritical Fluid Extraction and Traditional Distillation on the Isolation of Aromatic Compounds from *Cannabis indica* and *Cannabis sativa*. *Journal of Essential Oil Bearing Plants*. 20 (1), 175-184 2017/1/2. **(IF. 1.699)**
14. Muhammad Asif Hanif, Haq Nawaz, **Saima Naz**, Rubina Mukhtar, Nosheen Rashid, Ijaz Ahmad Bhatti, Muhammad Saleem. Raman spectroscopy for the characterization of different fractions of hemp essential oil extracted at 130 C using steam distillation method. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 182, 168-174 **(IF. 4.098)**
15. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal, Saima Naz. Biological approach to aflatoxin control in stored poultry feed. *Acta Veterinaria Brno*. 86 (1), 19-28 2017/4/9 **(IF. 0.667)**

16. Syeda Mona Hassan, Bushra Sultana, Munawar Iqbal, **Saima Naz**, Mazhar Abbas. Anti-aflatoxigenic activity of Punica granatum and Ziziphus jujuba leaves against Aspergillus parasiticus inoculated poultry feed: Effect of storage conditions. Biocatalysis and agricultural biotechnology 10, 104-112 2017/4/1
17. **Saima Naz**, Muhammad Asif Hanif, Tariq Mahmood Ansari, Jamal Nasar Al-Sabahi. A Comparative Study on Hemp (*Cannabis sativa*) Essential Oil Extraction Using Traditional and Advanced Techniques. Spectroscopy and spectral analysis. 37 (1), 306-311 2017/1/1 (IF. 0.589)
18. Muhammad Waqar Azeem, Muhammad Asif Hanif, Jamal Nasar Al-Sabahi, Asif Ali Khan, **Saima Naz**, Aliya Ijaz. Production of biodiesel from low priced, renewable and abundant date seed oil. Renewable Energy 86, 124-132 2016/2/1 (IF. 8.001)
19. **S Naz**, MA Hanif, HN Bhatti, M Shahid. Partition, fractionation, antioxidant potential and phenolics profiling of *Cannabis sativa* growing in Pakistan. OXIDATION COMMUNICATIONS 39 (4), 2946-2960. 2016/1/1
20. **Saima Naz**, Ijaz A Bhatti. Dyeing properties of cotton fabric using un-irradiated and gamma irradiated extracts of *Eucalyptus camaldulensis* bark powder. NISCAIR-CSIR, India. 2011
21. **Saima Naz**, Bushra Sultana, Muhammad Shahid. Alteration in antioxidant and antimicrobial attributes of leaves of Zizyphus species in response to maturation. Journal of Medicinal Plants Research 7 (2), 61-70. 2013/1/10
22. Ijaz A Bhatti, Shahid Adeel, Safia Rani, Tahsin Gulzar, **Saima Naz**, HF GET. Influence of UV radiation on extraction and dyeing of cotton fabrics using Eucalyptus bark powder as natural dye. Research Journal of Textile and Apparel. 2012/5/1
23. **Saima Naz**, Dr. M. Asif Hanif & Dr. Haq Nawaz Bhatti, Paper Chromatography" book of "CHROMATOGRAPHY. ISO with ISBN: 978-969-23074-0-6.

### **Certifications/Honors**

- Get best oral presenter/ best abstract award at 1<sup>st</sup> International Conference on Research in Biological Sciences at 26 September 2021
- Won SRGP of worth 0.36 million PKR by HEC Pakistan
- Won Indigenous 5000 Scholarship by HEC Pakistan for PhD studies in 2012.
- HEC approved PhD supervisor from 28 February 2020 to continue.

## Conferences/ Workshops

1. 1<sup>st</sup> international conference on research in biological sciences (RBS 2021) at Women university Multan on 26-27<sup>th</sup> September 2021
2. Conference on recent trends in Applied Biosciences (CRAABS) on 30 -31 march 2021 at LGU Lahore
3. 1<sup>st</sup> International Industrial chemistry conference 2021 on 26-28 February at NED University of Engineering and Technology
4. One day International online symposium on recent research trends in chemistry at 10 September 2020 at University of Okara
5. 8<sup>th</sup> ICSMAND: Semiconductor material and nano devices: new trend at KFUEIT at 09-03-2020
6. 1<sup>st</sup> national conference on recent trends in engineering and applied sciences (NCRTEA-2020) at MNSUET on 16-01-2020
7. 18<sup>th</sup> International And 30<sup>th</sup> National Chemistry Conference On Recent Trends In Chemistry by Department of chemistry UMT organized at 27-29 November 2019
8. International chemistry conference at Advances In The Field Of Polymer Materials And Biochemistry by Department of chemistry LGU organized at 26-27 March 2019
9. International Conference on Frontiers of Chemistry Celebrating the Periodic Table Year 2019 by ICS, BZU held at 27-29 march 2019.
10. National workshop "Teaching To Millennial,s Through Fusion Of Technology" organized by ORIC at BZU Multan on 22 -11-2019
11. International Symposium On Technology And Materials For Renewable Energy, Environment And Sustainability by Department of chemistry UAF organized at 06-07 February 2019
12. 3rd International Conference on "Safe Food for All" by IFSN, BZU held at 2-3 march 2017.
13. Bio-waste derived carbons for Waste -to-Bio-energy conversion and Water Purification by National Centre of Excellence in Analytical Chemistry, University of Sindh Jamshoro held at 20-22 February 2017
14. Hydrothermal carbonization of Biomass, Waste to Biofuel conversion by National Centre of Excellence in Analytical Chemistry, University of Sindh Jamshoro held at 23 February 2017
15. Science, Technology and Entrepreneurship by National Centre of Excellence in Analytical Chemistry, University of Sindh Jamshoro held at 24 February 2017
16. Technical And Patent Writing Workshop Held in Chemistry department University of Agriculture Faisalabad at 28 January 2017
17. International conference of Biochemistry, Biotechnology and Biomaterials held at 22-24 February 2016



18. International conference of Chemical & Biochemical society entitled Go greener for sustainable technology and development held at 24-26 February 2015.
19. Training workshop on advanced chemical techniques in natural and applied sciences held at 10-12 September 2015
20. International workshop on Renewable technologies for community development in Pakistan held at 04-06 November 2015
21. Annual dinner Function of Chemistry department UAF held on 23 November 2013.
22. 12<sup>th</sup> international and 24<sup>th</sup> National Chemistry Conference held at 28-30 October 2013
23. 1<sup>st</sup> international conference on "Safe food and human health" held at January 10-11, 2012.
24. 10<sup>th</sup> national and 22<sup>nd</sup> International Conference of Chemistry for Food and Energy at University of Agriculture Faisalabad (21-23<sup>rd</sup> November, 2011).

### **Administrative Experience**

- **Hostel Superintendent Girls Hostel** UE Faisalabad campus from November 2020 to July 2021
- **Co-ordinator Chemistry Department** from March 2019 to December 2020 of UE Multan campus.
- Convener of BS Chemistry admission committee from 2019 to 2020
- Member of BS Chemistry admission committee in 2020
- Member of MS Chemistry admission committee in 2020
- Establishment and management of Chemistry Laboratory from March 2019 to continue at UE Multan campus
- Canteen and photoshop committee member from 29-03 -2019 to continue
- Member of horticulture committee from February 2020 to June 2020
- Member of library discipline committee from February 2020 to continue

### **MPhil / MS Thesis supervision**

1. Phenolic profiling, partition fractionation, antioxidant and antimicrobial activity assessment of crude extracts of *Cassia absus* and *Citrus medica* collected from Burewala district Punjab.
2. Fractionation of *Pinus Roxburgi*, extracts, phenolic profiling and study of antioxidant properties, collected from Burewala district Punjab Pakistan.
3. Phenolic profiling and antimicrobial studies of *Fagonia cretica* collected from Kabirwala Punjab
4. Partition Fractionation and Study of Biological Activities of *Petunia* Flower Extract

**BS Thesis  
evaluation**

1. Study of arsenic in drinking waters from urban areas of vehari city
2. Study of mechanic approach for cationic association of epoxy with surface functionalities of carbon fillers
3. Synthesis and characterization of shape memory carbon epoxy composites
4. Facile photochemical approach for surface animation of carbon filler
5. Synthesis and characterization of bio-based epoxies from castor oil and linseed oil
6. Methodologies for the halogenation of carbon black
7. Kinetic modelling for smart UV curing approach for epoxy composites
8. Deep eutectic solvent a green approach for synthesis of indole based pyrazolines
9. Environmentally benign preparation of chalcones in DES
10. The facile synthesis of coumarines derivatives in deep eutectic solvents
11. Synthesis and characterization of copper oxide nano particles for photo catalytic degradation of methylene blue under mercury lamp
12. Heavy metal analysis in drinking waters commonly used cereals (rice, corn, wheat, barely ) and vegetables ( raddish , spinach, cauliflower, carrot)
13. Synthesis and characterization of cobalt oxide and chromium oxide nano particles for photocatalytic degradation of methylene blue under mercury lamp
14. Phytochemical and biological efficacy of oregano (*Oreganum vulgare*) seed extract
15. Biological and dye degradation potential of coriander (*Corriandum sativum* ) seed extract
16. Biological and plant growth promoting attributes of rosehip (*Rosa canina L*) extract.
17. Appraisal of *Withania coagulans* fruit extracts for biological activity and detoxification of lead
18. Variation of antioxidant and antimicrobial activity in different aerial parts of Basil (*Osimum bacilicum*)
19. Effect of drying on biological attributes of pomegranate ( *Punica granatum* ) peel extract

<b>Membership of Societies/ Journals</b>	<ul style="list-style-type: none"> <li>➤ Member of advisory board of International journal of Advances in Nutrition Science and Technology</li> <li>➤ Life time member of International Scientific Organization</li> <li>➤ Permanent member of Chemical Society of Pakistan</li> <li>➤ Tutorship of Allama Iqbal Open University of Pakistan</li> </ul>
<b>Languages</b>	<ul style="list-style-type: none"> <li>➤ Fluent in English Urdu and Punjabi</li> </ul>
<b>Computer expertise/ Software,s</b>	<ul style="list-style-type: none"> <li>➤ MS Office</li> <li>➤ Mini Tab</li> <li>➤ Statistix</li> <li>➤ Endnote</li> <li>➤ Microsoft Office</li> <li>➤ Origin</li> <li>➤ Turnitin</li> </ul>
<b>Hobbies &amp; Interests</b>	<ul style="list-style-type: none"> <li>➤ Exploration of new software's and technologies</li> <li>➤ Improvement in experimental, communicational and intellectual skills at deep level.</li> <li>➤ Designing new experiments.</li> <li>➤ Internet browsing and surfing.</li> <li>➤ Nature loving, book reading.</li> </ul>

<b>REFERENCES</b>	<p><b>1) Dr. Muhammad Asif Hanif</b></p> <p>Associate Professor  Department of Chemistry, University of Agriculture Faisalabad, Pakistan  Cell: +0333-8362781  0315-6602781  <a href="mailto:muhammadasifhanif@ymail.com">muhammadasifhanif@ymail.com</a></p> <p><b>2) Professor Dr. Ijaz Ahmad Bhatti</b></p> <p>Department of Chemistry, University of Agriculture Faisalabad, Pakistan  92-41-9200161-69, Ext: 3320  Cell: +92-0301-7005155</p>
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**3) Professor Dr. Tariq Mahmood Ansari**

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