

Nafisa Gull

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EXECUTIVE PROFILE

Professional in chemistry with practical experience of five years in R & D, lab establishment and management.

Currently a part of Punjab University in research faculty teaching laboratory practices to post graduate students. Working on multiple research projects including biomaterials, nano-materials, polymer reinforced fibrous composites, synthesis and characterization of different biopolymers and polymer nano-composites etc. Co-supervision of postgraduate students in their research projects and expertise in scientific paper writing are also part of my professional record.

LIST OF PUBLICATIONS (Total Impact Factor = 36.413)

1. Misbah Sultan, Sadia Atta, Haq Nawaz Bhatti, Atif Islam, Tahir Jamil, Ismat Bibi, **Nafisa Gull**. "Synthesis, characterization and application studies of polyurethane acrylate thermoset coatings: Effect of hard segment". **Polymer-Plastic Technology and Engineering**, (Accepted) **(I.F. = 1.511)**.
2. **Nafisa Gull**, Shahzad Maqsood khan, Atif Islam, Saba Zia, Muhammad Shafiq, Aneela Sabir, Muhammad Azeem Munawar, Muhammad Taqi Zahid Butt, Tahir Jamil. "Effect of Different Oxidizing Agents on Polyaniline/Single Walled Carbon Nanotube Composites synthesized via Ultrasonically Initiated in-situ Chemical Polymerization". **Materials Chemistry and Physics**, 172 (2016) 39-46 **(I.F. = 2.101)**.
3. **Nafisa Gull**, Shahzad Maqsood khan, Muhammad Azeem Munawar, Muhammad Shafiq, Farheen Anjum, Muhammad Taqi Zahid Butt, Tahir Jamil, "Synthesis and Characterization of Zinc oxide (ZnO) Filled Glass Fiber Reinforced Polyester Composites". **Materials and Design**, 67 (2015) 313-317 **(I.F. = 3.997)**.

4. Shahzad Maqsood khan, **Nafisa Gull**, Muhammad Azeem Munawar, Atif Islam, Zia S, Muhammad Shafiq, Aneela Sabir, Syed Muhammad Awais, Muhammad Arif Butt, Muhammad Taqi Zahid Butt, Tahir Jamil. "2D Carbon Fiber Reinforced High Density Polyethylene Multi-layered Laminated Composite Panels: Structural, Mechanical, Thermal and Morphological Profile". **Journal of Materials Science & Technology**, 32 (2016) 1077-1082. **(I.F. = 2.267)**.
5. Shahzad Maqsood khan, **Nafisa Gull**, Muhammad Azeem Munawar, Saba Zia, Farheen Anjum, Sajid Iqbal Niazi, Muhammad Shafiq, Atif Islam, Muhammad Arif Butt, Muhammad Taqi Zahid Butt, Tahir Jamil. "A study on effect of Carbon Fiber layers on thermal, mechanical and microscopic properties of Polyphenylene Sulphide/Carbon fiber composites". **Iranian Polymer Journal**, (Accepted Manuscript) **(I.F. = 1.684)**. DOI 10.1007/s13726-016-0439-3.
6. Muhammad Azeem Munawar, Shahzad Maqsood khan, **Nafisa Gull**, Muhammad Shafiq, Atif Islam, Saba Zia, Aneela Sabir, Awais Sattar Ghouri, Muhammad Taqi Zahid Butt, Tahir Jamil. "Fabrication and characterization of novel zirconia filled glass fiber reinforced polyester (GFRP) hybrid composites". **Journal of Applied Polymer Science**, (2016). DOI: 10.1002/app.43615. **(I.F. = 1.866)**.
7. Younas Habib Khan, Atif Islam, Afsheen Sarwar, **Nafisa Gull**, Shahzad Maqsood Khan Muhammad Azeem Munawar, Saba Zia, Aneela Sabir, Muhammad Shafiq, Tahir Jamil. "Novel green nano composites films fabricated by indigenously synthesized graphene oxide and chitosan". **Carbohydrate Polymers**, 146 **(2016)** 131-138. <http://dx.doi.org/10.1016/j.carbpol.2016.03.031>. **(I.F. = 4.219)**.
8. Misbah Sultan, Atif Islam, **Nafisa Gull**, Haq Nawaz Bhatti, Yusra Safa. "Structural Variation in Soft Segment of Waterborne Polyurethane Acrylate Nanoemulsion". **Journal of Applied Polymer Science**, 132(12) **(2015)** 1-10. **(I.F. = 1.866)**.

9. Atif Islam, Tariq Yasin, **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Azeem Munawar, Muhammad Shafiq, Aneela Sabir, Tahir Jamil. "Evaluation of Selected properties of biocompatible chitosan/poly (vinyl alcohol) Blends". **International Journal of Biological Macromolecules**, 82 (2016) 551-556. doi:10.1016/j.ijbiomac.2015.09.073 (**I.F. = 3.138**).
10. Farheen Anjum, **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Azeem Munawar, Atif Islam, Sajid Iqbal Niazi, Saba Zia, Muhammad Shafiq, Muhammad Taqi Zahid Butt, Tahir Jamil. "Mechanical and thermal profile of novel glass fiber reinforced polyester composites as a function of barium sulphate loading". **Advances in Polymer Technology**, (**Accepted**) DOI 10.1002/adv.21739. (**I.F. = 1.114**).
11. Atif Islam, Zahid Imran, Tariq Yasin, **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Shafiq, Aneela Sabir, Muhammad Azeem Munawar, Muhammad Hamid Raza, Tahir Jamil. "An investigation of AC impedance and dielectric spectroscopic properties of conducting chitosan-Silane Crosslinked Poly(vinyl alcohol) Blended Films". **Materials Research**, 2015. DOI: <http://dx.doi.org/10.1590/1516-1439.043715> (**I.F. = 0.788**).
12. Atif Islam, Tariq Yasin, **Nafisa Gull**, Shahzad Maqsood Khan, Aneela Sabir, Muhammad Azeem Munawar, Muhammad Shafiq, Tahir Jamil, Muhammad Hamid Raza. "Fabrication and Performance characteristics of Tough hydrogel scaffolds based on biocompatible polymers **International Journal of Biological Macromolecules**, 92 (2016) 1-10. <http://dx.doi.org/10.1016/j.ijbiomac.2016.07.010>. (**I.F. = 3.138**).
13. Aneela Sabir, Wail Falath, Karl I Jacob, Muhammad Shafiq, **Nafisa Gull**, Atif Islam, Muhammad Taqi Zahid Butt, Tahir Jamil. "Integrally skinned nano-cellular crosslinked asymmetric thin films infused with PEO-PPO-PEO block copolymer/ZnO-NPs for desalination using sea salt". **Materials Chemistry and Physics**, <http://dx.doi.org/10.1016/j.matchemphys.2016.09.022>. (**I.F. = 2.101**).
14. Aneela Sabir, Wail Falath, Karl I. Jacob, Muhammad Shafiq, Muhammad Azeem Munawar, Atif Islam, Nafisa Gull, Muhammad Taqi Zahid Butt,

- Khairuddin Sanaullah, Tahir Jamil. "Hyperbranched polyethyleneimine induced polycationic membranes for improved fouling resistance and high RO performance" **European Polymer Journal**, 85 (2016) 266-278. <http://dx.doi.org/10.1016/j.eurpolymj.2016.10.032> (I.F. = 3.485).
15. Sehrish Jabeen, Atif Islam, Abdul Ghaffar, Nafisa Gull, Ayesha Hameed, Anbreen Bashir, Tahir Jamil, Tousif Hussain. "Silane crosslinked injectable hydrogels for controlled release of neomycin sulfate". **International Journal of Biological Macromolecules**, 97 (2017) 218-277 (I.F. = 3.138). <http://dx.doi.org/10.1016/j.ijbiomac.2017.01.014>.
 16. Tehseen Riaz, Farah Kanwal, Saadat Anwar Siddiqi, **Nafisa Gull**, Tahir Jamil, Akbar Ali, Aisha Batool, Shah Nawaz Phulpoto, Khalid H. Thebo. Study of Conducting Properties of Chemically Synthesized Polyaniline/crystalline Silica Composites. *International Journal of Scientific & Engineering Research*, 7(6) (2016) 513-519.
 17. Shoaib Suleman, Shahzad Maqsood Khan, **Nafisa Gull**, Waqas Aleem, Muhammad Shafiq, Tahir Jamil. "A Comprehensive Short Review on Polyurethane Foam". **International Journal of Innovation and Scientific Research**, 12(1) (2014) 165-169.
 18. Shoaib Suleman, Shahzad Maqsood Khan, Tahir Jamil, Waqas Aleem, Muhammad Shafiq, **Nafisa Gull**. "Synthesis and Characterization of Flexible and Rigid Polyurethane Foam". **Asian Journal of Applied Sciences**, 2(5) (2014) 701-710.
 19. Shoaib Suleman, Shahzad Maqsood Khan, **Nafisa Gull**, Waqas Aleem, Muhammad Shafiq, Tahir Jamil. "Synthesis and Characterization of Visco-Elastic (VE) Polyurethane Foam". **International Journal of Innovation and Applied Studies**, 9(4) (2014) 1878-1886.
 20. Shahzad Maqsood Khan, Saba Zia, **Nafisa Gull**, Muhammad Taqi Zahid Butt, Tahir Jamil. "Polymers: A prodigious Revolution in Medical Arena". **Pakistan Plastic Manufacturers Association (PakPlas)**, (2014) 91 & 93.
 21. Shahzad Maqsood Khan, **Nafisa Gull**, Muhammad Yaseen Akram, Hakim Ali Haider, Muhammad Imran, Muhammad Taqi Zahid Butt, Tahir Jamil. "A

- Study on Synthesis and Testing of Polyoles using Soybean Oil and Castor Oil". **Asean Journal of Chemical Engineering (AJChE)**, 13(2) (2013) 27-38.
22. Shahzad Maqsood Khan, Muhammad Usman, **Nafisa Gull**, Muhammad Taqi Zahid Butt, Tahir Jamil, "An Overview on Pervaporation (An Advanced Separation Technique)". **Journal of Quality and Technology Management**, 9(1) (2013) 155-161.
 23. Shahzad Maqsood Khan, Muhammad Usman, **Nafisa Gull**, Muhammad Taqi Zahid Butt, Tahir Jamil. "Dehydration of Industrial Ethanol by Pervaporation". **Journal of Quality and Technology Management**, 9(2) (2013) 163-170.
 24. Treatment of Industrial Waste Water Contaminated by Water Based Inks Using Fenton Reagent
(Accepted in International Conference in France)
 25. A Study Of Rheological Properties Of Lubricating Oils Used For Motor Bikes
(Accepted in International Conference in France)

UNDER REVIEW

1. Irtaza Javeria, Atif Islam, **Nafisa Gull**, Abdul Ghaffar, Shahzad Maqsood Khan, Aneela Sabir, Shaista Khaliq, Muhammad Taqi Zahid Butt, Tahir Jamil, Sadia Atta. Controlled release of Montelukast Sodium from pH-sensitive hydrogels based on different molecular weight chitosan blended with poly(vinyl alcohol). **International Journal of Biological Macromolecules** (Submitted).
2. Atif Islam, Tariq Yasin, **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Azeem Munawar, Aneela Sabir, Muhammad Shafiq, Tahir Jamil, Muhammad Hamid Raz. "Electrospun nanofibrous scaffolds materials from γ -irradiated chitosan and PVA for biomedical applications". **Iranian Journal of Chemistry and Chemical Engineering, (Under Review)**.
3. Shahzad Maqsood Khan, Samandar Ali Malik, **Nafisa Gull**, Sidra Saleemi, Atif Islam, Muhammad Arif Butt, Muhammad Taqi Zahid Butt, Tahir Jamil. "Experimental investigation and modelling of the macro-mechanical

properties of cross-ply laminated fiber reinforced polymer composites using artificial neural network technique". **Results in Physics, (Under Review)**.

4. Shahzad Maqsood Khan, **Nafisa Gull**, Muhammad Azeem Munawar, Muhammad Shafiq, Atif Islam, Muhammad Taqi Zahid Butt, Tahir Jamil. "A study on fabrication of high density polyethylene/glass fiber composite for load bearing applications: Mechanical, thermal and surface properties". **Materials Research**, (Submitted).
5. Sadia Atta, Anila Tabassum, Muhammad Imran Din, Atif Islam, Misbah Sultan, Momina Faroz, Abdul Ahad, Nafisa Gull. Hydrothermal synthesis of ZnO nanorods and its application for eradication of Pb (II) ions. **Chilian Chemical Society**, (Submitted).
6. Sadia Atta, Mehreen Fatima, Atif Islam, **Nafisa Gull**. Grafting of silica particles with linoleic acid via modified Stober's method for preconcentration of pesticides in drinking water. *Chimica Oggi - Chemistry Today*, (Submitted).

RESEARCH PROJECTS & THESIS COMPLETIONS

- Synthesis and characterization of Zinc Oxide (ZnO) Filled glass Fiber Reinforced Polyester composites
- Polymer Composites to be Used for Biomaterials and Engineering Applications
- Synthesis of PANI/SiO₂ Composites and their Study of their Structural and Electrical Properties
- Synthesis and Characterization of Polyaniline/Single Walled Carbon Nanotube Composites using different Oxidizing Agents
- Graphene Production and composite with Natural Polymers
- Intelligent polyurethane/Graphenenanoclay composites: Synthesis and Thermo-mechanical Investigation
- Effect of reduced graphene oxide on the electric/dielectric and thermal properties of polyaniline
- Synthesis and Characterization of Reduced Graphite Oxide Doped Polyurethane Nano composites
- Synthesis and Characterization of Vinyl Acetate/ Styrene copolymer

- Production of Polyol used for making Polyurethane Foams from Soybean and Castor Oil
- Synthesis of Polyurethane
- Waste Water Treatment of Water Based Dyes
- Synthesis and Characterization of Viscoelastic Polyurethane Foam
- Synthesis of Polymer Composite for Targeted Drug Delivery Releases using Gelatin and Glycolic Acid

SCHOLASTIC RECORD

Ph.D Polymer Technology

2014-Continued

Department of Polymer Engineering & Technology University of the Punjab Lahore Pakistan

M.Phil Polymer Technology

2011-2013

Department of Polymer Engineering & Technology University of the Punjab Lahore Pakistan

1st Position

M.Sc. Chemistry with Spec. in Physical Chemistry

2009-2011

Institute of Chemistry, University of the Punjab Lahore Pakistan 1st div

B.Sc

2007-2009

University of the Punjab Lahore Pakistan 1st div

F.Sc

2002-2004

Board of Intermediate & Secondary Education Faisalabad 1st div

Matriculation

2000-2002

Board of Intermediate & Secondary Education Faisalabad 1st div

PROFESSIONAL HISTORY at PUNJAB UNIVERSITY, PAKISTAN

Research Scholar

Dec 2013- To date

Department of Polymer Engineering & Technology University of the Punjab Lahore Pakistan

Researcher

Apr 2012 – Nov 2013

Establishment of Industrial Research Labs Project Higher Education Commission (HEC)-Institute of Chemical Engineering & Technology University of the Punjab Lahore Pakistan

Research Technician

Nov 2011 – Mar 2012

Establishment of Research Laboratories for Polymers Project Higher Education Commission (HEC)-Institute of Chemical Engineering & Technology University of the Punjab Lahore Pakistan

ACADEMIC & RESEARCH WORKINGS

- Conducting Particles of Post Graduate Level (M.Phil Polymer Technology Program) i.e. Polymer Synthesis and Characterization (Lab)
- Co-supervising research projects of Masters and Graduate students to provide them technical support to complete their research objectives

INSTRUMENTS

Got expertise operating of number of equipments including

- Differential Scanning Calorimeter (DSC)
- Thermo mechanical Analyzer (TMA)
- Dynamic Mechanical Analyzer (DMA)
- Simultaneous Differential Scanning Calorimeter Thermo Gravimetric Analyzer (SDT)
- Rheometer

PRESENTATIONS

- Presented on Synthesis of Polyaniline/SiO₂ composites by chemical oxidation method & study of their structural, Thermal, and electrical properties in **10th International and 22nd National Chemistry Conference, University of Agriculture, Faisalabad, Pakistan. Nov. 21-23, 2011**

LOCAL TRAININGS & SEMINARS

- Participation in **27th National and 15th International Chemistry Conference** at Institute of Chemistry, University of the Malakand, Chakdara, Dir Lower, Khyber Pakhtunkhwa, Pakistan **Aug. 22-25, 2016**
- Win the **Certificate of Appreciation in Article Writing Competition** in Dunicliff Chemical Society, Department of Chemistry, Government College University, Lahore, Pakistan **Session 2014-2015**
- Participation in lecture on **World Science Day for Peace and Development 2014** at International Center for chemical and Biological Sciences, University of Karachi, Karachi, Pakistan **Nov. 10, 2014**

- Participation in **25th National and 13th International Chemistry Conference** at Institute of Chemistry, University of the Punjab, Lahore, Pakistan
Oct. 20-22, 2014
- Participation in **5th Symposium on Engineering Sciences** at Institute of Chemical Engineering & Technology, University of the Punjab, Lahore, Pakistan
April 2nd, 2014
- Participation in **Chromatographic Techniques & Sample Preparation Seminar** at Avari Hotel, Lahore
Jan. 23rd, 2014
- Participation in **International Workshop on Sustainable Energy and Membrane Systems for Desalination and Water Reuse** at Institute of Environmental Sciences and Engineering School of Civil and Environmental Engineering, National University of Science and technology, (NUST). Islamabad, Pakistan
Dec. 10-11, 2013
- Participation in **short course on Porous Carbon Materials & Polymer-Fiber Composites**. PIEAS, Nilore, Islamabad, Pakistan.
May 28-30, 2013
- Participation in a **National Seminar on Engineering Materials & their performance**, University of the Punjab, Lahore, Pakistan.
April 30, 2013
- Participation in a **3rd International Symposium on Biomedical Materials: Recent Advances and Challenges**. Interdisciplinary Research Center in Biomedical Materials, CIIT Lahore, Pakistan.
Dec. 18-20, 2012
- Participation in **2nd one day workshop on Young Researchers' Skill Development and Nays Emerging Ideas Conference (NAYS-EIC)**, University of the Punjab, Lahore, Pakistan.
Jan. 07, 2012

SOFTWARES

- Microsoft Office
- ChemDraw
- Endnote

AFFILIATIONS

The Chemical Society of Pakistan (CSP)

P0432

PERSONAL DETAILS

Permanent Address Chak No. 323 JB Trandi, Tehsil and Distt. Toba Tek Singh,
Pakistan

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0092-333-8976303

Date of Birth 12th December 1986

Nationality Pakistani

Religion Islam