

# Nafisa Gull

(M.Sc, Chemistry; M.Phil, Polymer Technology; PhD, Polymer

Technology (Pb))

Cell No: 0092-333-897-6303

Email: [nafisagull@gmail.com](mailto:nafisagull@gmail.com), [nafisagull.ipte@pu.edu.pk](mailto:nafisagull.ipte@pu.edu.pk)

---

## EXECUTIVE PROFILE

Professional in chemistry with practical experience of more than twelve years in R & D, teaching, lab establishment and management.

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

## Awards

- **Merit Certificate for First Position in M.Phil Polymer Technology** from Department of Polymer Engineering and Technology, University of the Punjab, Lahore **Session: 2011-2013**
- **Chemistry Technology Award (Rs. 20,000/-)** for hydrogel coating for slow drug release and cold storage by Shafi Reso Chem (SRC) in **"7<sup>th</sup> Invention to Innovation Summit 2018"** at University of the Punjab, Lahore, Pakistan **Mar. 7-8, 2018**
- **Chemistry Technology Award (Rs. 20,000/-)** for indigenously Product Innovation by SRC-Shafi Reso Chem in **"6<sup>th</sup> Invention to Innovation Summit 2017"** at University of the Punjab, Lahore, Pakistan **Mar. 8-9, 2017**
- **Chemical Technology Award (Rs. 10,000/-)** for indigenously Product Innovation by Pakistan Chemical Manufacturing Association (PCMA) in **"6<sup>th</sup> Invention to Innovation Summit 2017"** at University of the Punjab, Lahore, Pakistan **Mar. 8-9, 2017**
- **Merit Scholarship in M.Sc Chemistry** from Institute of Chemistry, University of the Punjab, Lahore, Pakistan **Session: 2009-2011**

## SCHOLASTIC RECORD

**Ph.D Polymer Technology** **2014-2022**

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

**1<sup>st</sup> Position**

**M.Sc. Chemistry with Spec. in Physical Chemistry** **2009-2011**

Institute of Chemistry, University of the Punjab Lahore Pakistan 1<sup>st</sup> div

**B.Sc** **2007-2009**

University of the Punjab Lahore Pakistan 1<sup>st</sup> div

**F.Sc** **2002-2004**

Board of Intermediate & Secondary Education Faisalabad 1<sup>st</sup> div

**Matriculation** **2000-2002**

Board of Intermediate & Secondary Education Faisalabad 1<sup>st</sup> div

## PROFESSIONAL HISTORY at PUNJAB UNIVERSITY, PAKISTAN

**Lecturer** **July 2023 – To date**

Institute of Polymer and Textile Engineering, University of the Punjab, Lahore, Pakistan

**Research Scholar** **Dec 2020 – June 2023**

Institute of Polymer and Textile Engineering, University of the Punjab, Lahore, Pakistan

**Volunteer Researcher** **Feb. 2018 – Dec 2020**

Institute of Polymer and Textile Engineering, University of the Punjab, Lahore, Pakistan

**Research Officer** **Nov 2017 – Feb 2018**

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

**Research Scholar** **Dec 2013- Nov 2017**

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

## LIST OF PUBLICATIONS (Total Impact Factor = 261.70)

### PUBLICATIONS IN ISI INDEXED JOURNALS

1. Maria Kanwal, Sehrish Jabeen, Atif Islam, **Nafisa Gull**, Adnan Mujahid, Muhammad Sarfraz Akram, Shahzad Maqsood khan, Bilal Haider, Azra Mehmood, Amna Ramzan. Cytocompatible and stimuli-responsive chitosan based carrier with 3-aminopropyl(diethoxy)methylsilane for controlled release of cefixime. **Chemical Papers**, (2023) <https://doi.org/10.1007/s11696-023-02886-1> (I.F. = 2.2).
2. Rizwana Shami, Aneela Sabir, Sadia Sagar Iqbal, **Nafisa Gull**, Rubab Zohra, Shahzad Maqsood khan. Synergistic effect of GO/ZnO loading on the performance of cellulose acetate/chitosan blended reverse osmosis membranes for NOM rejection. **Heliyon**, (2023) <https://doi.org/10.1016/j.heliyon.2023.e13736> (I.F. = 4.0).
3. Muhammad Khalid Azeem, Atif Islam, Muhammad Rizwan, Atta Rasool, **Nafisa Gull**, Raf Ullah Khan, Shahzad Maqsood Khan, Tahir Rasheed. Sustainable and environment Friendlier carrageenan-based pH-responsive hydrogels: swelling behavior and controlled release of fertilizers. **Colloid and Polymers Science**, 301 (2023) 209-219. <https://doi.org/10.1007/s00396-023-05054-9>. (I.F. = 2.4).
4. Tabinda Riaz, **Nafisa Gull**, Atif Islam, Muhammad Rizwan Dilshad, Leonard Ionut Atanase, Christelle Delaite. Needleless electrospinning of PCL nanofibers deposited on gelatin film for controlled Ibuprofen release. **Chemical Papers**, 77 (2023) 2657-2669. <https://doi.org/10.1007/s11696-022-02655-6> (I.F. = 2.2).
5. **Nafisa Gull**, Shahzad Maqsood Khan, Aman Ullah, Rafi Ullah Khan. Editorial: Polymer Blends for Drug Release System. **Frontiers in Materials**, 09 (2022) <https://doi.org/10.3389/fmats.2022.1059009> (I.F. = 3.2).
6. Aneela Sabir, Wail Falath, Muhammad Shafiq, **Nafisa Gull**, Maria Wasim, Karl I. Jacob. Effective desalination and anti-biofouling performance *via* surface immobilized MWCNTs on RO membrane. **Chinese Journal of Chemical Engineering**, 56 (2022) 33-45. <https://doi.org/10.1016/j.cjche.2022.06.027>. (I.F. = 3.8).
7. Muhammad Asim Raza, **Nafisa Gull**, Se-Won Lee, Kamala-Kannan Seralathan, Sang Hyun Park. Development of stimuli-responsive chitosan based hydrogels with anticancer efficacy, enhanced antibacterial characteristics, and applications for controlled release of benzocaine. **Journal of Industrial Engineering and**

- Chemistry**, 109 (2022) 210-220. <https://doi.org/10.1016/j.jiec.2022.02.004> (I.F. = 6.1).
8. Mehwish Naz, Sehrish Jabeen, **Nafisa Gull**, Abdul Ghaffar, Atif Islam, Muhammad Rizwan, Huda Abdullah, Atta Rasool, Shahzad Maqsood Khan, Rafi Ullah Khan. Novel Silane Crosslinked Chitosan Based Electrospun Nanofiber for Controlled Release of Benzocaine. **Frontiers in Materials**, 9 (2022) <https://doi.org/10.3389/fmats.2022.826251> (I.F. =3.2).
  9. Zunaira Huma Ghauri, Atif Islam, Muhammad Abdul Qadir, Abdul Ghaffar, **Nafisa Gull**, Maryam Azam, Azra Mehmood, Atif Ali Ghauri, Rafi Ullah Khan. Novel pH-responsive chitosan/sodium alginate/PEG based hydrogels for release of sodium ceftriaxone. **Materials Chemistry and Physics**, 277 (2022) <https://doi.org/10.1016/j.matchemphys.2021.125456> (I.F. =4.6).
  10. Amna Farooq, Ariba Farooq, Sehrish Jabeen, Atif Islam, **Nafisa Gull**, Rafi Ullah Khan, H. M. Shifa ul Haq, Azra Mehmood, Nazim Hussain, Muhammad Bilal. Designing Kappa-carrageenan/guar gum/polyvinyl alcohol-based pH-responsive silane-crosslinked hydrogels for controlled release of cephadrine. **Journal of Drug Delivery Science and Technology**, (2022) <https://doi.org/10.1016/j.jddst.2021.102969> (I.F. =5.0)
  11. Mehwish Naz, Muhammad Rizwan, Sehrish Jabeen, Abdul Ghaffar, Atif Islam, **Nafisa Gull**, Atta Rasool, Rafi Ullah Khan, Samar Z. Alshawwa, Munawar Iqbal. Cephadrine drug release using electrospun chitosan nanofibers incorporated with halloysite nanoclay. **Zeitschrift für Physikalische Chemie**, 236 (2022) 227-238. <https://doi.org/10.1515/zpch-2021-3072> (I.F. = 2.5).
  12. Zunaira Huma Ghauri, Atif Islam, Muhammad Abdul Qadir, **Nafisa Gull**, Bilal Haider, Rafi Ullah Khan, Tabinda Riaz. Development and evaluation of pH-sensitive biodegradable ternary blended hydrogel films (chitosan/guar gum/PVP) for drug delivery applications. **Scientific Reports**, 11 (2021) <https://doi.org/10.1038/s41598-021-00452-x>. (I.F. = 4.6).
  13. Najma Rehman, Muhammad Rizwan Dilshad, Atif Islam, **Nafisa Gull**, Tabinda Riaz, Shahzad Maqsood Khan, Rafi Ullah Khan. Novel graphene oxide loaded sodium alginate hydrogels cross-linked with tetraethyl orthosilicate for cephadrine release analysis. **Journal of Drug Delivery Science and Technology**, 66 (2021) <https://doi.org/10.1016/j.jddst.2021.102784>. (I.F. =5.0).

14. Sadia Sagar Iqbal, Ali Bahadar, Nazia Hossain, **Nafisa Gull**, Tasawar Shahzad Ahmad, Nimra Ehsan, Saba Urooge Khan, Tabinda Riaz. Synergetic influence of F-MWCNTS on polyvinylpyrrolidone sodium alginate composite membrane for reverse osmosis. **Journal of Environmental Chemical Engineering**, 9 (2021) <https://doi.org/10.1016/j.jece.2021.106085> (I.F. =7.7).
15. Mehvish Tanveer, Ariba Farooq, Sadia Ata, Ismat Bibi, Misbah Sultan, Sehrish Jabeen, **Nafisa Gull**, Atif Islam, Rafi Ullah Khan, Samiah H. Al-Mijalli, Munawar Iqbal. Aluminum nanoparticles, chitosan, acrylic acid and vinyltrimethoxysilane based hybrid hydrogel as a remarkable water super-absorbent and antimicrobial activity. **Surfaces and Interfaces**, 25 (2021) <https://doi.org/10.1016/j.surfin.2021.101285> (I.F. =6.2).
16. Sumayya, **Nafisa Gull**, Atif Islam, Abdul Ghaffar, Sehrish Jabeen, Sadia Sagar Iqbal, Shahzad Maqsood Khan, Rafi Ullah Khan, Nazim Hussain, Muhammad Bilal. Development and characterization of chitosan and acrylic acid-based novel biodegradable polymeric films for soil conditioning. **International Journal of Biological Macromolecules**, 182 (2021) 950-958. <https://doi.org/10.1016/j.ijbiomac.2021.04.098> (I.F. = 8.2).
17. Muhammad Zeeshan, Muhammad Rizwan Dilshad, Atif Islam, Sadia Sagar Iqbal, Muhammad Sarfraz Akram, Farhan Mehmood, **Nafisa Gull**, Rafi Ullah Khan. Synergistic effect of silane cross-linker (APTEOS) on PVA/gelatin blend films for packaging applications. **High Performance Polymers**, 33 (2021) 815-824. <https://doi.org/10.1177/0954008321994659> (I.F. = 2.1).
18. Muhammad Maaz Arif, Shahzad Maqsood Khan, **Nafisa Gull**, Tanveer A. Tabish, Saba, Zia, Rafi Ullah Khan, Sayed Muhammad Awais, Muhammad Arif Butt. Polymer-based biomaterials for chronic wound management: Promises and challenges. **International Journal of Pharmaceutics**, 598 (2021) <https://doi.org/10.1016/j.ijpharm.2021.120270> (I.F. = 5.8).
19. Muhammad Naveed Ashraf, Shahzad Maqsood Khan, Shahid Munir, **Nafisa Gull**, Shahid Rehman Khan, Rashid Saleem, Rafi Ullah Khan. Synthesis of Aniline 2,5 Disulfonic Acid Modified Ecofriendly Melamine Resins and their Performance Evaluation as Leather Retanning Agents. **Journal of the Society of Leather Technologists and Chemists**, 104 (2020) 216-222. (I.F. = 0.3).

20. Israr Ali, Muhammad Asim Raza, Rashid Mehmood, Atif Islam, Aneela Sabir, **Nafisa Gull**, Bilal Haider, Sang Hyun Park, Rafi Ullah Khan. Novel maleic acid crosslinked chitosan/ poly (vinyl pyrrolidone) nanofibrous membranes for reverse osmosis desalination. **International Journal of Molecular Sciences: Materials Science**, 21 (2020) <https://doi.org/10.3390/ijms21197338> (I.F. = 5.6).
21. **Nafisa Gull**, Shahzad Maqsood Khan, Syed Khalid, Saba Zia, Atif Islam, Aneela Sabir, Misbah Sultan, Farieha Hussain, Rafi Ullah Khan, Muhammad Taqi Zahid Butt. Designing of biocompatible and biodegradable chitosan based crosslinked hydrogel for in vitro release of encapsulated povidone-Iodine: A clinical translation. **International Journal of Biological Macromolecules**, 164 (2020) 4370-4380. <https://doi.org/10.1016/j.ijbiomac.2020.09.031> (I.F. = 8.2).
22. **Nafisa Gull**, Shahzad Maqsood Khan, Osama Majeed Butt, Atif Islam, Attaullah Shah, Sehrish Jabeen, Saba Urooge Khan, Afrasyab Khan, Rafi Ullah Khan, Muhammad Taqi Zahid Butt. Inflammation targeted chitosan-based hydrogel for controlled release of diclofenac sodium. **International Journal of Biological Macromolecules**, 162 (2020) 175-187. <https://doi.org/10.1016/j.ijbiomac.2020.06.133> (I.F. = 8.2).
23. Misbah Sultan, Saba Urooge Khan, Farah Kanwal, Atif Islam, Khadija Rafiq, Sadaf Hafeez, **Nafisa Gull**, Muhammad Shafiq, Rafi Ullah Khan. Silica nanoparticle-doped polyurethane membranes for reverse osmosis applications. **Chemical Papers**, 74 (2020) 2837-2848. <https://doi.org/10.1007/s11696-020-01124-2> (I.F. = 2.2).
24. Dure Najaf Iqbal, Mehwish Tariq, Shahzad Maqsood Khan, **Nafisa Gull**, Sadia Sagar Iqbal, Abida Aziz, Arif Nazir, Munawar Iqbal. Synthesis and characterization of chitosan and guar gum based ternary blends with polyvinyl alcohol. **International Journal of Biological and Macromolecules**, 143 (2020) 546-554 <https://doi.org/10.1016/j.ijbiomac.2019.12.043> (I.F. = 8.2).
25. Sumreen Asim, Muhammad Sufyan Javed, Shahid Hussain, Dingding Lv, Fozia Iram, Muhammad Hashim, Muhammad Saleem, Muhammad Khalid, Riffat Jawaria, Zaka Ullah, **Nafisa Gull**. RuO<sub>2</sub> Nanorods decorated CNT grown carbon cloth a free standing electrode for supercapacitor and lithium ion batteries. **Electrochimica Acta**, 326 (2019) 135009 [doi.org/10.1016/j.electacta.2019.135009](https://doi.org/10.1016/j.electacta.2019.135009) (I.F. = 6.6).

26. **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt, Syed Khalid, Muhammad Shafiq, Atif Islam, Sumreen Asim, Sadaf Hafeez, Rafi Ullah Khan. In vitro study of Chitosan based multi-responsive hydrogels as drug release haulier: A preclinical study. **RSC Advances**, 9 (2019) 31078-31091. <https://doi.org/10.1039/C9RA05025F> (I.F. = 3.9).
27. **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt, Saba Zia, Syed Khalid, Atif Islam, Imran Sajid, Rafi Ullah Khan, Martin William King. Hybrid crosslinked hydrogels as a technology platform for in vitro release of cephradine. **Polymers for Advanced Technologies**, 30 (2019) 2414-2424. <https://doi.org/10.1002/pat.4688> (I.F. = 3.4).
28. Shahzad Maqsood Khan, Samandar Ali Malik, **Nafisa Gull**, Sidra Saleemi, Atif Islam, Muhammad Arif Butt, Muhammad Taqi Zahid Butt, Tahir Jamil. "Fabrication and modelling of the macro-mechanical properties of cross-ply laminated fiber reinforced polymer composites using artificial neural network". **Advanced Composite Materials**, 28 (2019) 409-423. <https://doi.org/10.1080/09243046.2019.1573448> (I.F. = 2.9).
29. Asim Raza, Atif Islam, Aneela Sabir, **Nafisa Gull**, Israr Ali, Rashid Mehmood, Gul Hassan, Muhammad Umair Khan. PVA/TEOS cross-linked membranes incorporated by ZnO-NPs and NaAlg to improve reverse osmosis performance for desalination. **Journal of Applied Polymer Science**, 136 (2019) <https://doi.org/10.1002/app.47559> (I.F. = 3.0).
30. Atiya Butt, Sehrish Jabeen, Numrah Nisar, Atif Islam, **Nafisa Gull**, Sadia Sagar Iqbal, Shahzad Maqsood Khan, Basit Yameen. Controlled release of cephradine by biopolymers based target specific crosslinked hydrogels. **International Journal of Biological and Macromolecules**, 121 (2019) 104-112. <https://doi.org/10.1016/j.ijbiomac.2018.10.018> (I.F. = 8.2).
31. Irtaza Javeria, Atif Islam, **Nafisa Gull**, Abdul Ghaffar, Shahzad Maqsood Khan, Aneela Sabir, Shaista Khaliq, Muhammad Taqi Zahid Butt, Sadia Atta. Controlled release of Montelukast Sodium from pH-sensitive injectable hydrogels. **Polymer-Plastics Technology and Materials**, 58 (2019) 948-956. <https://doi.org/10.1080/03602559.2018.1520256> (I.F. = 2.7).
32. Sadaf Hafeez, Atif Islam, **Nafisa Gull**, Abbas Ali, Shahzad Maqsood Khan, Saba Zia, Kalsoom Anwar, Saba Urooge Khan, Tahir Jamil.  $\gamma$ -irradiated Chitosan Based

- Injectable Hydrogels for Controlled Release of Drug (Montelukast Sodium). **International Journal of Biological and Macromolecules**, 114 (2018) 890-897. <https://doi.org/10.1016/j.ijbiomac.2018.02.107> (I.F. = 8.2).
33. Muhammad Shafiq, Aneela Sabir, Atif Islam, Shahzad Maqsood Khan, **Nafisa Gull**, Syed Nadir Hussain, Muhammad Taqi Zahid Butt. Cellulose acetate based thin film nanocomposite reverse osmosis membrane incorporated with TiO<sub>2</sub> nanoparticles for improved performance. **Carbohydrate Polymers**, 186 (2018) 367-376. <https://doi.org/10.1016/j.carbpol.2018.01.070> (I.F. = 11.2).
34. Muhammad Azeem Munawar, Dirk Wolfram Schubert, Shahzad Maqsood Khan, Muhammad Atiq Ur Rehman, **Nafisa Gull**, Atif Islam, Aneela Sabir, Muhammad Shafiq, Bilal Haider, Mudassar Azam, Saba Urooge Khan, Monika M Voigt, Investigation of functional, physical, mechanical and thermal properties of TiO<sub>2</sub> embedded polyester hybrid composites: A design of experiment (DoE) study. **Progress in Natural Science: Materials International**, 28 (2018) 266-274. <https://doi.org/10.1016/j.pnsc.2017.12.005> (I.F. = 4.7).
35. Anbreen Bashir, Sehrish Jabeen, **Nafisa Gull**, Atif Islam, Misbah Sultan, Abdul Ghaffar, Shahzad Maqsood Khan, Sadia Sagar Iqbal, Tahir Jamil. Co-concentration effect of silane with natural extract on biodegradable polymeric films for food packaging. **International Journal of Biological Macromolecules**, 106 (2018) 351-359. <https://doi.org/10.1016/j.ijbiomac.2017.08.025> (I.F. = 8.5).
36. 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, thermal and microscopic profile of novel glass fiber reinforced polyester composites as a function of barium sulphate loading". **Advances in Polymer Technology**, 37 (2018) 929-936. <https://doi.org/10.1002/adv.21739> (I.F. = 3.1).
37. 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-Plastics Technology and Materials**, 56 (2017) 1608-1618. <https://doi.org/10.1080/03602559.2017.1280736> (I.F. = 2.7).
38. Sehrish Jabeen, Atif Islam, Abdul Ghaffar, **Nafisa Gull**, Ayesha Hameed, Anbreen Bashir, Tahir Jamil, Tousif Hussain. "Development of novel crosslinked pH sensitive



- Silane crosslinked injectable hydrogels for controlled release of neomycin sulfate". **International Journal of Biological Macromolecules**, 97 (2017) 218-227. <http://dx.doi.org/10.1016/j.ijbiomac.2017.01.014> (I.F. = 8.2).
39. 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. = 6.0).
40. 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**, 183 (2016) 595-605. <http://dx.doi.org/10.1016/j.matchemphys.2016.09.022>. (I.F. = 4.6).
41. 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. = 8.2).
42. Shahzad Maqsood khan, **Nafisa Gull**, Muhammad Azeem Munawar, Atif Islam, Saba Zia, 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**, 10, 32 (2016) 1077-1082. <https://doi.org/10.1016/j.jmst.2016.06.011> (I.F. = 10.9).
43. 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. = 11.2).

44. 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**, 43615 (2016) 1-9. <https://doi.org/10.1002/app.43615> (I.F. = 3.0).
45. 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. "Polyphenylene Sulphide/Carbon Fiber Composites: Study on their Thermal, Mechanical and Microscopic Properties". **Iranian Polymer Journal**, 25 (2016) 475-485. <https://doi.org/10.1007/s13726-016-0439-3> (I.F. = 3.1).
46. **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. <https://doi.org/10.1016/j.matchemphys.2015.12.048> (I.F. = 4.6).
47. 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. <https://doi.org/10.1016/j.ijbiomac.2015.09.073> (I.F. = 8.2).
48. 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**, 18 (2015) 1256-1263. <http://dx.doi.org/10.1590/1516-1439.043715> (I.F. = 1.7).
49. 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. <https://doi.org/10.1002/app.41706> (I.F. = 3.0).

50. **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. <https://doi.org/10.1016/j.matdes.2014.11.021> (I.F. = 8.4).

#### PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Sadia Atta, Mehreen Fatima, Atif Islam, **Nafisa Gull**, Misbah Sultan. Grafting of Silica Particles with Linoleic Acid via Modified Stober's Method for Preconcentration of Pesticides in Drinking Water. **Key Engineering Materials**, 778 (2018) 316-324.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.

#### PUBLICATIONS IN NATIONAL JOURNALS

1. 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.

2. 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.

#### ARTICLES IN RESEARCH MAGZINES

1. **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt, Atif Islam, Muhammad Shafiq, Aneela, Sabir, Sadaf Hafeez, Saba Urooge Khan, Sehrish Jabeen. "Hydrogels as a Drug Haulier for Biomedical Applications" **Pakistan Plastic Manufacturers Association (PakPlas)**, (2018) 136-137.
2. Tehreem Anwar, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt, Atif Islam, **Nafisa Gull**, Muhammad Shafiq, Saba Zia, Sadia Sagar Iqbal, Adnan Ahmad, Fahd Jamshaid. "Synthetic and Natural Polymer Blends". **Pakistan Plastic Manufacturers Association (PakPlas)**, (2018) 115 & 117.
3. 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.

#### Chapters in International Books

1. **Nafisa Gull**, Atif Islam, Abdul Mannan, Tabinda Riaz, Asma Khalid, Shahzad Maqsood Khan, Rafi Ullah Khan. Handbook of Functionalized Nanostructured Mxenes 22<sup>nd</sup> Chapter "Challenges and Future Perspectives of Mxenes" ISBN: 9789819920372, **Springer Nature (2023)** 377-387.
2. Muhammad Saad Fasih, Shahzad Maqsood Khan, Saba Zia, **Nafisa Gull**, Tanveer A. Tabish. Handbook of Functionalized Nanostructured Mxenes, Synthetic Strategies and Applications from Energy to Environment Sustainability, 16<sup>th</sup> Chapter "Functionalized Mxene Conjugates in Removal of Pharmaceuticals and Other Pollutants" ISBN: 978-981-99-2037-2, **Springer Nature (2023)** 267-282.
3. Ayesha Sharif, Shahzad Maqsood Khan, Tanveer A. Tabish, **Nafisa Gull**, Saba Zia. Handbook of Functionalized Nanostructured Mxenes, Synthetic Strategies and Applications from Energy to Environment Sustainability, 19<sup>th</sup> Chapter "Biosensing Applications of MXene-Based Composites" ISBN: 978-981-99-2037-2, **Springer Nature (2023)** 325-343.
4. Fahd Jamshaid, Atif Islam, Abdul Mannan, Abdul Moqheet Hai, **Nafisa Gull**, Shumaila Fayyaz, Rafi Ullah Khan. Handbook of Functionalized Nanostructured Mxenes, Synthetic Strategies and Applications from Energy to Environment

- Sustainability, 19<sup>th</sup> Chapter "Miscellaneous Applications of Other Mxene-Based Sensors" ISBN: 978-981-99-2037-2, **Springer Nature (2023)** 345-356.
5. **Nafisa Gull**, Sehrish Jabeen, Atif Islam, Shahzad Maqsood Khan, Rafi Ullah Khan. Polysaccharide based Biomaterials: Delivery of Therapeutics and Biomedical Applications" 12<sup>th</sup> Chapter "Carrageenan-based Carriers for Therapeutic Delivery" ISBN: 9781839164989, **Royal Society of Chemistry, UK, (2022)** 331-360.
  6. Shahzad Maqsood Khan, Saba Zia, **Nafisa Gull**. "Hybrid Nanomaterials: Biomedical, Environmental and Energy applications" 7<sup>th</sup> Chapter "Organic-Inorganic NanoHybrids in Tissue Engineering and Drug Delivery Applications" ISBN 9789811945380, Springer, Germany, (2022) 133-150.
  7. Shahzad Maqsood Khan, Osama Majeed Butt, Saba Ayub, **Nafisa Gull**, Saba Zia. "Dye-Sensitized Solar Cells: Emerging Trends and Advanced Applications" 04<sup>th</sup> Chapter "Electron Kinetics and Interface Engineering of dye-sensitized solar cell sandwich structure. ISBN: 9780128182079, **Elsevier, UK, (2022)** 75-90.
  8. Shahzad Maqsood khan, **Nafisa Gull**, Rafi Ullah Khan, Muhammad Taqi Zahid Butt "Polyvinyl Chloride (PVC) based Blends: Preparation, Characterization and Applications" 2<sup>nd</sup> Chapter "Polyvinyl Chloride (PVC): Structure and Properties Relationship", ISBN: 978-3-03-078454-6, **Springer, Germany, (2022)** 19-48.
  9. **Nafisa Gull**, Shahzad Maqsood khan, Atif Islam, Muhammad Taqi Zahid Butt "Bio Monomers for Green Polymeric Composites Materials" 09<sup>th</sup> Chapter "Hydrogels used for Biomedical Applications" ISBN: 978-1-119-30170-7, **Wiley-blackwell, UK, (2019)** 175-199.
  10. Muhammad Munawar, Dirk Wolfram Schubert, Shahzad Maqsood Khan, **Nafisa Gull**, Atif Islam, Muhammad Atiq Ur Rehman and Monika M Voigt, Book title "Polyester - Production, Characterization and Innovative Applications", 5<sup>th</sup> Chapter "Particulate Filled Polyester Hybrid Composites" ISBN 978-953-51-5876-9, **(2018) InTechOpen.**
  11. **Nafisa Gull**, Shahzad Maqsood khan, Atif Islam, Tahir Jamil, Muhammad Taqi Zahid Butt "Polyaniline Blends, Composites, and Nanocomposites" 3<sup>rd</sup> Chapter "Modification of Polyaniline", ISBN: 978-0-12-809551-5, **Elsevier, UK, (2018)** 61-93.

#### 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/SiO<sub>2</sub> Composites and 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
- Effect of reduced graphene oxide on the electric/dielectric and thermal properties of polyaniline

#### 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

#### Oral PRESENTATIONS

- **Nafisa Gull.** Fabrication of chitosan based hybrid hydrogel for the controlled release of diclofenac sodium. **2<sup>nd</sup> International Conference, Trends and Research in Chemistry (TRIC 2023).** Department of Chemistry, University of Education, Lahore, Pakistan **May 16-18, 2023**
- **Nafisa Gull.** Fabrication of rationally designed functional hydrogels for the controlled release of cephadrine. **32<sup>nd</sup> Edition of the International Congress Preparing the Future by Promoting Excellence.** In Lasi, Romania. Online conference. **28 Feb – 2 Mar. 2022**
- **Nafisa Gull.** Designing of multi-responsive hybrid hydrogel as a controlled drug release carrier. **1<sup>st</sup> International Conference (Online) Trends and Research in Chemistry (TRIC 2022).** Department of Chemistry, University of Education, Lahore, Pakistan **Jan. 18-19, 2022**
- **Nafisa Gull,** Shahzad Maqsood khan, Muhammad Taqi Zahid Butt, Rafi Ullah Khan. Hybrid cross-linked hydrogels as a technology platform for in vitro release of cephadrine. **7<sup>th</sup> Global Conference on Polymer and Composite Materials (PCM 2020) & (GNN 2020) The 2<sup>nd</sup> International Conference on Graphene and Novel Nanomaterials,** Online Conference (Microsoft Teams Meeting) **Nov. 1-4, 2020**
- Shahzad Maqsood khan, **Nafisa Gull,** Atif Islam, Muhammad Abid, Sayed Muhammad Awais, Saba Zia, Muhammad Taqi Zahid Butt, Tahir Jamil. Recent

Advancements in Chemical Trends; R & D and Production. **Two Days Conferences in Recent Advances in Chemistry-2017**, Department of Chemistry, The University of Lahore, Lahore, Pakistan **May 13-14, 2017**

- Muhammad Taqi Zahid Butt, Shahzad Maqsood Khan, **Nafisa Gull**, Tahir Jamil. Treatment of Industrial Waste Water Contaminated by Water Based Inks Using Fenton Reagent. **2<sup>nd</sup> International Conference on Material Technology and Environmental Materials (MTEM), Beijing, China.** **Oct. 21-23, 2016**
- **Nafisa Gull**, Farah Kanwal. Presented on Synthesis of Polyaniline/SiO<sub>2</sub> composites by chemical oxidation method & study of their structural, Thermal, and electrical properties in **10<sup>th</sup> International and 22<sup>nd</sup> National Chemistry Conference**, University of Agriculture, Faisalabad, Pakistan. **Nov. 21-23, 2011**

#### Poster PRESENTATIONS

1. Muhammad Saad Fasih, Ayesha Sharif, Sadaf Hafeez, Saba Urooge Khan, **Nafisa Gull**, Atif Islam, Shahzad Maqsood Khan, Abdullah Khan Durrani. **International Conference on Chemical Engineering**, held in Department of Chemical Engineering, University of Engineering and Technology, Lahore and Institute of Chemical Engineering and Technology, University of the Punjab, Lahore, Pakistan. **Mar. 24-25. 2022**
2. **Nafisa Gull**, Shahzad Maqsood Khan, Saba Zia, Rafi Ullah Khan, Muhammad Taqi Zahid Butt. In vitro study of multi-responsive hydrogels as drug release carrier. **"8th Invention to Innovation Summit 2019"** held in University of the Punjab, Lahore, Pakistan **Apr. 2-3<sup>rd</sup>, 2019**
3. Muhammad Mohsin, Shahzad Maqsood Khan, Saba Zia, Saba Urooge Khan, **Nafisa Gull**, Rafi Ullah Khan, Polymer modified concrete based on recycled polymers. **"8th Invention to Innovation Summit 2019"** held in University of the Punjab, Lahore, Pakistan **Apr. 2-3<sup>rd</sup>, 2019**
4. **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt, Atif Islam, Muhammad Shafiq. Development of Hybrid Hydrogel for Biomedical Applications. **"7th Invention to Innovation Summit 2018"** held in University of the Punjab, Lahore, Pakistan **Mar. 7-8<sup>th</sup>, 2018**
5. Humaira Idrees, Aneela Sabir, Muhammad Shafiq, **Nafisa Gull**, Shahzad Maqsood Khan, Sehrish Jabeen. Pb (II) Removal from Waste Water using Cellulose Acetate

- Membrane Modified by Vinyl-triethoxysilane-graphene oxide/Gum Arabic. **7<sup>th</sup> Invention to Innovation Summit 2018**” held in University of the Punjab, Lahore, Pakistan **Mar. 7-8<sup>th</sup>, 2018**
6. Muhammad Faisal Shafiq, Dure Najaf Iqbal, Shahzad Maqsood Khan, Sadia Sagar Iqbal, **Nafisa Gull**, Dr. Atif Islam, Sehrish Jabeen. Polyvinyl Chloride and Polyvinyl Pyrrolidone Blended Membrane for Desalination. **7<sup>th</sup> Invention to Innovation Summit 2018**” held in University of the Punjab, Lahore, Pakistan **Mar. 7-8<sup>th</sup>, 2018**
  7. Nafees Ali, Dure Najaf Iqbal, Shahzad Maqsood Khan, Sadia Sagar Iqbal, **Nafisa Gull**, Atif Islam, Sehrish Jabeen. Polyvinyl Chloride and Cellulose Acetate Blended membrane for Desalination. **7<sup>th</sup> Invention to Innovation Summit 2018**” held in University of the Punjab, Lahore, Pakistan **Mar. 7-8<sup>th</sup>, 2018**
  8. **Nafisa Gull**, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt, Saba Zia, Saba Urooge Khan, Sadaf Hafeez, Sehrish Jabeen, Adnan Ahmad, Fahd Jamshaid, Muhammad Azeem Munawar, Atif Islam, Aneela Sabir, Sadia Sagar Iqbal, Muhammad Shafiq. Synthesis and Characterization of Polysaccharide based Hydrogels. **“4<sup>th</sup> International Conference on Frontier of Advanced Engineering Materials (FAEM)”** held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. **Feb. 19-20<sup>th</sup>, 2018**
  9. Saba Urooge Khan, Shahzad Maqsood Khan, Atif Islam, Sadaf Hafeez, Misbah Sultan, Muhammad Shafiq, Sadia Sagar Iqbal, Muhammad Azeem Munawar, Aneela Sabir, **Nafisa Gull**, Saba Zia, Khadija Rafiq, Shumaila Fayyaz, Muhammad Taqi Zahid Butt. Preparation and Characterization of Polyurethane Grafted Calcium Alginate Membranes. **“4<sup>th</sup> International Conference on Frontier of Advanced Engineering Materials (FAEM)”** held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. **Feb. 19-20<sup>th</sup>, 2018**
  10. Saba Zia, Shahzad Maqsood Khan, **Nafisa Gull**, Atif Islam, Younas Habib Khan, Muhammad Azeem Munawar, Muhammad Shafiq, Aneela Sabir, Saba Urooge Khan, Sadaf Hafeez, Sehrish Jabeen, Muhammad Taqi Zahid Butt. Hydrophilic Gels for Biomedical Applications. **“4<sup>th</sup> International Conference on Frontier of Advanced Engineering Materials (FAEM)”** held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. **Feb. 19-20<sup>th</sup>, 2018**
  11. Sehrish Jabeen, Atif Islam, Aneela Sabir, **Nafisa Gull**, Saba Zia, Attia Butt, Muhammad Shafiq, Adnan Ahmad, Fahd Jamshaid, Muhammad Azeem Munawar, Saba Urooge Khan, Sadaf Hafeez, Shahzad Maqsood Khan, Muhammad Taqi Zahid



- Butt. Study of Biopolymer based pH Responsive Hydrogels for Controlled Release of Antibiotics. "**4<sup>th</sup> International Conference on Frontier of Advanced Engineering Materials (FAEM)**" held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. **Feb. 19-20<sup>th</sup> 2018**
12. Sadaf Hafeez, Atif Islam, Kalsoom Anwar, Muhammad Shafiq, Shahzad Maqsood Khan, Abbas Ali, Aneela Sabir, **Nafisa Gull**, Saba Zia, Saba Urooge Khan, Sehrish Jabeen, Muhammad Taqi Zahid Butt. Study of Release Profile of Montelukast Sodium by Crosslinked Injectable Hydrogels. "**4<sup>th</sup> International Conference on Frontier of Advanced Engineering Materials (FAEM)**" held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. **Feb. 19-20<sup>th</sup>, 2018**
  13. Saba Urooge Khan, Hina Saleem, Shahzad Maqsood Khan, Qamar Bashir, Khadija Rafiq, Sadia Sagar Iqbal, Aneela Sabir, Sehrish Jabeen, **Nafisa Gull**, Muhammad Taqi Zahid Butt. Development of cellulose acetate/polyethylene glycol membrane for Dialysis. "**International Conference on Solid State physics (ICSSP'17)**" **Won Third Prize in Poster Competition** held in Centre of Solid State Physics, University of the Punjab, Lahore, Pakistan. **Dec 10-14, 2017**
  14. Saba Urooge Khan, Sadaf Hafeez, Shahzad Khan, Atif Islam, Misbah Sultan, Muhammad Shafiq, **Nafisa Gull**, Saba Zia and Muhammad Taqi Zahid Butt. Synthesis and Characterization of amphiphilic triblock Polyurethane copolymers membrane for reverse osmosis, "**International Conference on Solid State physics (ICSSP'17)**" held in Centre of Solid State Physics, University of the Punjab, Lahore, Pakistan **Dec 10-14, 2017**
  15. Shahzad Maqsood Khan, Saba Zia, Saira Bano, **Nafisa Gull**, Atif Islam, Sadia Sagar Iqbal, Muhammad Abid, Sehrish Jabeen, Muhammad Taqi Zahid Butt, Tahir Jamil. An Investigation of Rheological Behaviour of Lubricating Oils Used for Motor Bikes. "**15<sup>th</sup> International Symposium on Advanced Materials (ISAM-2017)**" National Centre for Physics, Islamabad, Pakistan. **Oct. 16-20, 2017**
  16. Sadia Atta, Mehreen Fatima, Atif Islam, **Nafisa Gull**, Misbah Sultan. Grafting of Silica Particles with Linoleic Acid via Modified Stober's Method for Proconcentration of Pesticides in Drinking Water. "**15<sup>th</sup> International Symposium on Advanced Materials (ISAM-2017)**" National Centre for Physics, Islamabad, Pakistan. **Oct. 16-20, 2017**
  17. Sadia Atta, Aneela Tabassum, Muhammad Imran Din, Atif Islam, Misbah Sultan, Muhammad Faroz, Abdul Ahad, **Nafisa Gull**. Hydrothermal Synthesis of ZnO Nanorods and its Application for Eradication of Pb (II) ions. "**15<sup>th</sup> International**

**Symposium on Advanced Materials (ISAM-2017)** National Centre for Physics,  
Islamabad, Pakistan. **Oct. 16-20, 2017**

#### LOCAL TRAININGS & SEMINARS

1. Participated in **“International Conference on Ionic liquids for Sustainable Future”** held at Centre for Research in Ionic Liquids (CRIL), School of Chemistry, University of the Punjab, Lahore, Pakistan **Mar. 10, 2022**
2. Participated in National Conference on **“Quality Assurance in Higher Education Institutions: Challenges and Reforms”** held at Quality Enhancement Cell, University of the Punjab, Quaid-e-Azam Campus, Lahore, Pakistan. **Dec. 30, 2020**
3. Participated in 2<sup>nd</sup> Symposium on **“Advanced Composites for Aerospace & Industrial Applications”** held at University of Engineering and Technology, Lahore, Pakistan **Nov. 25, 2020**
4. Participated in **“7<sup>th</sup> International Symposium on Biomedical Materials Science and Technology Innovation and The Knowledge Economy”** held at Interdisciplinary Research Centre in Biomedical Materials, COMSATS University Islamabad, Lahore Campus **Dec. 11-12, 2019**
5. Participated in **“One week workshop on Synthesis & Applications of Polyurethane (PU) Hydrogels”** held at Department of Chemistry & Center for Learning & Teaching (CLT), Forman Christian College (A Chartered University), Lahore **June, 17-21, 2019**
6. Participation as a Technology Presenter in **“8<sup>th</sup> Invention to Innovation Summit 2019”** at University of the Punjab, Lahore, Pakistan **Apr. 2-3, 2019**
7. Participated in **“Counting Violent Extremism Orientation”** seminar organized by University of the Punjab, Lahore and Center for Health and Gender Equality (CHANGE) held at Institute of Education & Research, University of the Punjab, Lahore, Pakistan **Jan. 22, 2019**
8. Participated in **“Awareness Seminar on HEC Research projects under Technology Development Fund (TDF)”** held at Al-Razi Hall, Undergraduate Block, University of the Punjab, Lahore, Pakistan **Aug. 10, 2018**
9. Participation as a Technology Presenter in **“7<sup>th</sup> Invention to Innovation Summit 2017”** at University of the Punjab, Lahore, Pakistan **Mar. 7-8, 2018**

10. Participated in "**4<sup>th</sup> International Conference on Frontiers of Advanced Engineering Materials (FAEM-18)**" held at PCSIR Laboratories, Complex, Lahore, Ministry of Science & Technology, Government of Pakistan **Feb. 19-20, 2018**
11. Participated in "**6<sup>th</sup> International Symposium on Biomedical Materials ISBM 2017, Synergising Partnerships**" held at held at Interdisciplinary Research Center in Biomedical Materials, COMSATS Institute of Information Technology, Lahore, Pakistan **Dec. 14-16, 2017**
12. Participated in 2 Days Workshop on "**Patent Filing & Introduction to Intellectual Property System of Pakistan**" held in Khorana Hall, Institute of Chemistry, University of the Punjab, Lahore, Pakistan **May 17-18, 2017**
13. Participation as a volunteer in "**6<sup>th</sup> Invention to Innovation Summit 2017**" at University of the Punjab, Lahore, Pakistan **Mar. 8-9, 2017**
14. Participation in "**World Quality Day**" at Al Razi Hall, Undergraduate Block, University of the Punjab, Lahore, Pakistan **Feb. 8<sup>th</sup>, 2017**
15. Participation in "**Workshop on Entrepreneurship, use of Business Intelligence for Development**" at Institute of Chemical Engineering and Technology, University of the Punjab, Lahore, Pakistan **Nov. 8<sup>th</sup>, 2016**
16. Participation in "**27<sup>th</sup> National and 15<sup>th</sup> International Chemistry Conference**" at Institute of Chemistry, University of the Malakand, Chakdara, Dir Lower, Khyber Pakhtunkhwa, Pakistan **Aug. 22-25, 2016**
17. Win the "**Certificate of Appreciation in Article Writing Competition**" in Dunning Chemical Society, Department of Chemistry, Government College University, Lahore, Pakistan **Session 2014-2015**
18. 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**
19. Participation in "**25<sup>th</sup> National and 13<sup>th</sup> International Chemistry Conference**" at Institute of Chemistry, University of the Punjab, Lahore, Pakistan **Oct. 20-22, 2014**
20. Participation in "**5<sup>th</sup> Symposium on Engineering Sciences**" at Institute of Chemical Engineering & Technology, University of the Punjab, Lahore, Pakistan **Apr. 2<sup>nd</sup>, 2014**
21. Participation in "**Chromatographic Techniques & Sample Preparation Seminar**" at Avari Hotel, Lahore **Jan. 23<sup>rd</sup>, 2014**

22. 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**
23. Participation in **“short course on Porous Carbon Materials & Polymer-Fiber Composites”** Pakistan Institute of Engineering and Applied Science (PIEAS), Nilore, Islamabad, Pakistan **May 28-30, 2013**
24. Participation in a **“National Seminar on Engineering Materials & their performance”**, University of the Punjab, Lahore, Pakistan **Apr. 30, 2013**
25. Participation in **“3<sup>rd</sup> International Symposium on Biomedical Materials: Recent Advances and Challenges”** held at Interdisciplinary Research Center in Biomedical Materials, CIIT Lahore, Pakistan **Dec. 18-20, 2012**
26. Participation in **“2<sup>nd</sup> one day workshop on Young Researchers Skill Development and Nays Emerging Ideas Conference (NAYS-EIC)”**, University of the Punjab, Lahore, Pakistan **Jan. 07, 2012**

**ASSISTED IN THESIS SUPERVISION OF M. PHIL POLYMER TECHNOLOGY, DPET, LAHORE**

<b>Sr. No.</b>	<b>Student name</b>	<b>Roll No.</b>	<b>Title of Thesis</b>	<b>Session</b>
1	Syed Ghayour Abbas	MPE-24-13	Synthesis of Pervaporation Membranes for the removal of 2-EHA from water steam during the production of metal octoate	2013-2015
2	Tehreem Anwer	2MPE-13-21	Synthesis and Characterization of Packing Material based on Gelatin and PVA	2013-2015
3	Sajid Hussain	MPE-19-13	To Study the Blend of Low Density Poly Ethylene (LDPE) And Ethylene Propylene Diene Monomer (EPDM) Rubber	2014-2016
4	Muhammad Sajjad	MPE-09-14	Development and Characterization of Polypropylene (PP)/Ethylene Propylene Diene Monomer (EPDM) Blend	2014-2016
5	Muzaffar Ahsan	MPE-14-14	Preparation and Characterization of Low Density Polyethylene (LDPE)/Recycled Polyethylene Terephthalate (rPET) Blend	2014-2016
6	Imran Shaikh	MPE-	Tensile Properties Enhancement in PC/AbS	2014-

<b>Sr. No.</b>	<b>Student name</b>	<b>Roll No.</b>	<b>Title of Thesis</b>	<b>Session</b>
		18-14	Blends	2016
7	Ansa Khalid	MPE-17-14	Effect of Natural and Synthetic Fiber on Impact Behaviour of Polyester and Epoxy Based Fiber Reinforced Polymer Composites	2014-2016
8	Amir Javed	MPE-16-14	To Study the Effect of Compatibilizer on Blending of Polystyrene (PS) and Ethylene Propylene Diene Monomer (EPDM) Rubber	2014-2016
9	Muhammad Arslan Mahmood	MPE-23-14	To Enhance Flame Retardancy of Flexible PVC by Using Antimony Trioxide	2014-2016
10	Muhammad Talib Aleem	MPE-26-14	Preparation and characterization of Thermoplastic Elastomer Based on Polystyrene and Natural Rubber Blend (PS/NR)	2014-2016

#### **AFFILIATIONS**

The Chemical Society of Pakistan (CSP)  
International Association for Carbon Capture

**P0432**  
**202310020168**