

SabaZia

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EXECUTIVE PROFILE

Research Professional with experience of R&D and management of approximately **eight years**. Currently part of University of the Punjab and working as **lecturer** at the Dept. of Polymer Engg. & Tech. since 26-11-2015.

SCHOLASTIC RECORD

PhD (In progress) **2015-continued**

MPhil (CGPA=3.92) **2013-15**

Department of Polymer Engg. & Tech.
University of the Punjab, Pakistan

M.Sc. (CGPA=3.3) **2011-13**

Center of High Energy Physics,
University of the Punjab, Pakistan

B.Sc. (Math, Stat, physics) **1998-00**

Government Kinnaird College Lahore Pakistan

F.Sc. (Pre-Engineering) **1993-95**

Lahore University for Women Lahore Pakistan

Matriculation (Science subjects) **1991-93**

The New School Model Town Lahore Pakistan

PROFESSIONAL HISTORY AT PUNJAB UNIVERSITY PAKISTAN

Lecturer (Contract)

Nov 2015- To date

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

- Teaching, guiding and helping students for performing their practical in labs for course of M.Phil Polymer Technology
 - Polymer Synthesis and Characterization
 - Polymer Rheology and Processing
- Guiding research students and professionals of not only of Polymer Engineering Department PU Lhr but also of other departments and universities like Chemical Engineering, Chemistry from UET, Punjab University, NUST, Suparco, Khota Research Laboratories and Atomic Energy Commission for their practical, thesis and research projects regarding synthesis and testing.
- Administer labs regarding implementation of proper lab practices to students and staff, audits of labs and inventories, safety management, inventories control, handling of equipments and reactions in labs
- Participation in procurement documentations for instruments and chemicals both import & local.

Establishment of Industrial Research Labs for Polymers and Material Synthesis (HEC-ICET PU Lahore)

- International tendering and bids evaluation for purchase of instruments for labs etc
- Undergo Lab testing on instruments DSC, TMA, TGA, RHEOMETER, FTIR, GPC
- Assisting in projects for synthesis and characterization of polymers and materials
- Working with students of Graduate and Masters of engineering and chemistry for their thesis and paper publications
- Project Management for establishment of industrial research laboratories
- Installation & Training
 - 1) Universal testing Machine(UTM)**
 - 2) Dynamic mechanical Analyzer(DMA)**
 - 3) Lab Extruder**
 - 4) High-pressure Reactor**
 - 5) Lab Attritor**
 - 6) Rockwell Hardness Tester**
 - 7) Multiple Equipments for testing of mechanical properties of materials, Viscosity measurements Paint testing instruments**

Establishment of Research Laboratories for Polymers and Material Synthesis, Characterization, Rheology and Processing (HEC-ICET PU Lahore)

- Research oriented project implementation to ensure laboratories establishment for R&D in polymers
- Undergo Lab testing on instruments
 - 1) Differential Scanning Calorimeter(DSC)**
 - 2) Thermomechanical Analyzer(TMA)**
 - 3) Simultaneous Differential Scanning Calorimeter/Thermogravimetric Analyzer (SDT)**
 - 4) Rheometer**
 - 5) Fourier Transform Infrared Spectroscopy(FTIR)**
 - 6) Gel permeation chromatograph(GPC)**
- **Installation and training of polymer characterization instruments DSC, TGA, TMA, RHEOMETER, FTIR and GPC.**
- Assisted in laboratory work for thesis completion of M.Sc and Graduate students of Chemical Engineering and Chemistry
- SOP's preparations for Instruments
- Coordination with finance department for getting required amounts sanctioned on priority
- Management of international tenders for purchase of instruments
- Bids evaluation & ensure indenting of material & equipment as per specifications and cost budgets
- Project Management comprising of imports, purchases, administration, accounts handling, budget allocations, amount distributions and instrument installations

PUBLICATIONS

1. A Study on Effect of Carbon Fiber Layers on Thermal, Mechanical and Microscopic Properties of Polyphenylene Sulphide/Carbon Fiber Composite. Shahzad Maqsood Khan, Nafisa Gull, Muhammad Azeem Munawar, Saba Zia, Farheen Anjum, Muhammad Sajid Iqbal, Muhammad Shafiq, Atif Islam, Muhammad Arif Butt, Muhammad Taqi Zahid Butt and Tahir Jamil. **Iranian Polymer Journal (2016) I.F 1.806 Accepted**
2. 2D Carbon Fiber Reinforced High Density Polyethylene Multi-layered Laminated Composite Panels: Structural, Mechanical, Thermal and Morphological Profile 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 and Tahir Jamil. **Journal of Material Science & Technology (2016) I.F 1.909 Accepted**
3. Effect of different oxidants on polyaniline/single walled carbon nanotubes composites synthesized via ultrasonically initiated in-situ chemical polymerization Nafisa Gull, Shahzad Maqsood Khan, Atif Islam, Saba Zia, Muhammad Shafiq, Aneela Sabir, Muhammad Azeem

Munawar, Muhammad Taqi Zahid Butt, Tahir Jamil; **Materials Chemistry and Physics** 172, 39-46, (2016) I.F 2.258

4. Influence of Polyethylene Glycol 600 on Cellulose Acetate Membranes for Reverse Osmosis Desalination. Aneela Sabir, M. Shafiq, Atif Islam, Shahzad M. Khan, Tahir Jamil, M. Taqi Zahid, Amir Shafeeq, Arslan Shehzad, Arshad S. Bhatti, Younas Habib, Saba Behzad, and Sarwat Jabeen. **Polymer Research Journal**. 9 (2) 291-302 (2015)
5. Polymers: A prodigious Revolution in Medical Arena, Shahzad Maqsood Khan, Saba Zia, Prof. Dr. Muhammad Taqi Zahid Butt, Prof. Dr. Tahir Jamil, **Pakistan Plastic Manufacturers Association (PAK PLAS)** 91-93 (2014)
6. Novel green nano composites films fabricated by indigenously synthesized graphene oxide and chitosan. Younus H. Khan, Atif Islam, Afsheen Sarwar, Nafisa Gull, Shahzad M. Khan, Muhammad A. Munawar, Saba Zia, Aneela Sabir, Muhammad Shafiq, Tahir Jamil. **Carbohydrate Polymers**. 146 (2016) 131–138. 4.074
7. Polyphenylene sulphide/carbon fiber composites: study on their thermal, mechanical and microscopic properties. Shahzad Maqsood Khan¹ · Nafisa Gull¹ · Muhammad Azeem Munawar¹ · Saba Zia¹ · Farheen Anjum¹ · Muhammad Sajid Iqbal¹ · Muhammad Shafiq¹ · Atif Islam¹ · Syed Muhammad Awais³ · Muhammad Arif Butt¹ · Muhammad Taqi Zahid Butt² Tahir Jamil¹Iran **Polymer and Petrochemical Institute**. (2016)(1.806)
8. Integrally skinned nano-cellular crosslinked asymmetric thin films infused with PEO-PPO-PEO block copolymer/ZnO-NPs for desalination using sea salt. Aneela Sabir Wail Falath, Karl I.Jacob, Muhammad Shafiq, Nafisa Gull, Atif Islam, Muhammad Azeem Munawar, Saba Zia, Shahzad Maqsood Khan, Amir Shafeeq, Muhammad Taqi Zahid Butt, Tahir Jamil. **Materials Chemistry and Physics** (2016) 1-11.

PROFESSIONAL TRAININGS & SEMINARS

- 25th National & 13th International Chemistry Conference 2014(Institute of Chemistry PU)
Oct 20-22, 2014
- Chromatography Techniques & Sample Preparation Seminar Agilent Technologies

- Fifth Symposium on Engineering Sciences (ICET PU LHR) **Jan 23, 2014**
- National Seminar on Engg. Materials & their Performance-2013 (CEET PIMME MCPU) **Apr 2, 2014**
- Third International Symposium on Biomedical Materials (COMSATS LHR) **Apr 30, 2013**
- Enhancing Quality and Productivity through Testing (TET PU LHR) **Dec 18-20, 2012**
- HAZOP Study for Process Industries (ICET PU LHR) **Mar 9-10, 2011**
- Implementation of ISO 17025 for QA in Testing and Research Labs (ICET PU LHR) **Aug 10, 2010**
- Energy Conservation and Sustainability (ICET PU LHR) **Aug 7-8, 2010**
- Implementation of QMS (ISO 9001:2008) in Process Industries (ICET PU LHR) **Aug 6, 2010**
- Process Integration and Intensification (ICET PU LHR) **Jul 31-Aug1, 2010**
- Attended 2nd Symposium on Engineering Sciences (ICET PU LHR) **Jul 28-29, 2010**
- Operational And Installation Training Of GPC (ICET PU LHR) **Mar 10, 2010**
- Operational Instrumental Training Of Q600 SDT, Q200 DSC, Q400 TMA And AR 1500 EX Rheometer (ICET PU LHR) **May 18-22, 2009**
- Operational And Installation Training Of FTIR (ICET PU LHR) **Apr 9-11, 2009**
- Operational And Installation Training Of FTIR (ICET PU LHR) **Oct 25-28, 2008**

PROFESSIONAL TOOLS AND SOFTWARES

- Microsoft Office (Word, Excel, Power Point)
- Front Page
- Macromedia Flash
- Adobe Photoshop
- Web Designing

ASSISTED IN THE FOLLOWING THESIS AND RESEARCH PROJECTS

- Synthesis and Characterization of Polyurethane Acrylate copolymers
- Synthesis and Characterization of Acrylonitrile-Vinyl Acetate copolymer
- Synthesis and Characterization of Acrylonitrile-Styrene copolymer
- Synthesis and Characterization of Acrylonitrile-Acrylic Acid copolymer
- Synthesis and Characterization of Acrylonitrile-Methyl Meth Acrylate copolymer
- Synthesis and Characterization of Acrylonitrile-Butyl Acrylate copolymer
- Synthesis and Characterization of Acrylonitrile-Acryl amide copolymer
- Synthesis and Characterization of Acrylonitrile-Ethyl Acetate copolymer
- Synthesis and Characterization of Acrylonitrile-Acryl amide & Methyl Meth Acrylate terpolymer
- Synthesis and Characterization of Poly Vinyl Acetate
- Synthesis and Characterization of Poly Styrene
- Synthesis and Characterization of Poly Methyl Meth Acrylate

- Synthesis and Characterization of Poly Acrylonitrile
- Synthesis and Characterization of Vinyl Acetate/ Methyl Meth Acrylate copolymer
- Synthesis and Characterization of Vinyl Acetate/ Acrylonitrile copolymer
- Synthesis and Characterization of Vinyl Acetate/ Styrene copolymer
- Synthesis and Characterization of MMA Graphite Nano Platelets conducting composites
- A Study of Rheological(Flow) Properties of Lubricating Oils used for Motor Bikes

PERSONAL DETAILS:

Father's Name	Zia Ahmed Khan
Permanent Address	106 J Model Town, Lahore, Pakistan
Telephone No's	0092-333-423-6577
Date of Birth	16 th July 1976
Nationality	Pakistani
I.D Card Number	35202-2803193-0
Religion	Islam

REFERENCES

Can be furnished on demand.