

CURRICULUM VITAE: **MUHAMMAD AZEEM ASHRAF**

Personal Details

- Father Name Muhammad Ashraf
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Objective

To pursue my career with hard work, dedication and self-determination

Academic Qualifications

2019-Continued	Ph.D. Textile School of Design and Textile University of Management and Technology, Lahore
2011	M.S. Textile Chemistry School of Design and Textile University of Management and Technology, Lahore
2009	M.Sc. Fibre Technology Department of Fibre and Textile Technology University of Agriculture, Faisalabad
2006	B.Sc.(Chemistry, Math, Physics) Government College of Science, Faisalabad University of the Punjab, Lahore

Professional Experience

2015 to till Date	Lecturer Department of Fibre and Textile Technology University of Agriculture, Faisalabad
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**Research
Papers**

1. **“Comparative Performance Evaluation of Conventional and Ultrasonic Assisted Bleaching of Cotton Fabric”**. Journal of the Chemical Society of Pakistan, Vol. 35 No. 1 (2013) 82-88. (Impact Factor 0.345).
 2. **“Comparative Performance Evaluation of Conventional Bleaching and Enzymatic Bleaching with Glucose Oxidase on Cotton Knitted Fabric”**. Journal of Cleaner Production, Vol. 42 (2013) 167-171. (Impact Factor 3.844).
 3. **“Optimization of Extraction and Dyeing Parameters for Natural Dyeing of Cotton Fabric Using Marigold (*Tagetes Erecta*)”**. Asian Journal of Chemistry, Vol. 25 No. 11 (2013) 5955-5959 (Impact Factor 0.266).
 4. **“Effect of Conventional and Ultrasonic Assisted Bleaching on Colour Fastness Properties of Reactive Dyed Cotton Fabric”**. Asian Journal of Chemistry, Vol. 25 No. 11 (2013) 5960-5964 (Impact Factor 0.266).
 5. **“Performance Enhancement of Natural Dyes Extracted From Acacia Bark Using Eco-Friendly Cross-Linker for Cotton”**. Journal of Natural Fibers, Vol. 13 No. 03 (2016) 374-381 (Impact Factor 0.582).
 6. **“Sorption Properties of Iron Impregnated Activated Carbon Web for Removal of Methylene Blue from Aqueous Media”**. Fibers and Polymers, Vol.17 No.8 (2016) 1245-1255 (Impact Factor 1.022).
 7. **“Development of Novel Curing System for Low Temperature Curing of Resins with the Aid of Nanotechnology and Ultraviolet Radiations”**. RSC Advances, Vol. 6 No 84 (2016) 81069-81075 (Impact Factor 3.289).
 8. **“Development of a Novel Method for Natural Dyeing Of Cotton Fabrics Using Ultrasonic Radiations and Acacia Bark”**. Journal of Natural Fibers, Vol. 15 No 5 (2018) 680-686 (Impact Factor 1.076).
 9. **“In-situ Development of Highly Photocatalytic Multifunctional Nanocomposites by Ultrasonic Acoustic Method”**. Ultrasonics Sonochemistry, Vol. 40 (2018) 41-56 (Impact Factor 6.012).
 10. **“Sonochemical Synthesis of Highly Crystalline Photocatalyst for Industrial Applications”**. Ultrasonics, Vol. 83 (2018) 203-213, (Impact Factor 2.377).
 11. **“Predicting Cotton Fibre Maturity by Using Artificial Neural Network”**. Autex Research Journal, Vol. 18 No 4 (2018) 429-433 (Impact Factor 0.957).
 12. **“Development of Maghemite Glass Fibre Nanocomposite for Adsorptive Removal of Methylene Blue”**. Fibers and Polymers, Vol. 19 No 8 (2018) 1735-1746 (Impact Factor 1.353).
 13. **“A Novel Green Stabilization of TiO₂ Nanoparticles onto Cotton”**. Fibers and Polymers, Vol. 19 No 11 (2018) 2268-2277 (Impact Factor 1.353).
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14. **Synthesis and Applications of Nano-TiO₂: A Review.** Environmental Science and Pollution Research, Vol. 26 No 4 (2019) 3262-3291 (Impact Factor 2.800).
 15. **One-Pot Sonochemical Synthesis of ZnO Nanoparticles for Photocatalytic Applications, Modelling and Optimization.** Materials, Vol. 13 No 1 (2020) 1-19 (Impact Factor 2.972).
 16. **Development of a novel method for trash segmentation of cotton fibre color measurement.** Turkish Journal of Agriculture and Forestry, Vol. 46 No 6 (2022) 919-932.
 17. **Development of prediction system for shade change variations in dyed cotton fabric after application of water repellent finishes.** Journal of Natural Fibers, Vol 20 No 1(2023) 2154302.
 18. **Development of a 3D Color Diagram for Improved Visual Grading System of Cotton.** Fibers and Polymers, Vol 24 No. 1(2023), 73-82.
 19. **Effect of Microwave Irradiation on Coloring and Mechanical Properties of Direct Dyed Fabric.** AATCC Journal of Research, Vol 11 No. 2 (2024), 101-108.
 20. **Development of Maghemite Nanoparticles to Effectively Adsorb Methylene Blue Dye from Water.** Water, Air, & Soil Pollution, Vol 235 No. 4 (2024), 244.
 21. **Polymer-Based Composites for Sorption, Energy Storage and Sensing Applications.** Separation & Purification Reviews, 1-14.
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 22. **Effect of Cross Linker Treatment on Dimensional and Mechanical Properties of Knitted Fabrics.** Pakistan Journal of Scientific and Industrial Research Series A Physical Sciences, Vol 62A No 1 (2019) 48-51 (HEC "X" Category).
 23. **Pretreatment of Cotton with Different Radiations to Improve Colour Strength and Fastness Properties in Reactive Dyeing.** Pakistan Journal of Scientific and Industrial Research Series A Physical Sciences, Vol 62A No 3 (2019) 174-180 (HEC "X" Category).
 24. **An Experimental Study to Evaluate the Shade Change of Reactive Dyed Woven Fabric after Application of Water Repellent Finish and Cross Linker.** Journal of Textile Engineering & Fashion Technology, Vol. 3 No. 2, (2017) 1-4.
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Conference Papers

1. **"Natural Dyeing of Cotton Fabrics with Dyes Extracted from Pomegranate Peel and Marigold Flower as Substitute for Synthetic Dyes"**. Paper Presented at 4th International Conference on Textile & Clothing (ICTC)" on March 28-30, 2013 jointly organized by The Textile Institute UK, SDC UK & UMT Lahore Pakistan.
 2. **"Synthesis and Characterization of Highly Crystalline Anatase form Titania by Ultrasonic Cavitation Method"** Paper Presented at 8th International Textile, Clothing & Design Conference – Magic World of Textiles held on October 02nd to 05th 2016, Dubrovnik, Croatia.
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	<ol style="list-style-type: none"> 3. “Synthesis and Application of Iron Oxide Nanoparticles for Efficient Adsorption of Acid Red Dye from Water” Paper Presented at 8th International Conference on Nanomaterials - Research & Application (NANOCON 2016) held on October 19th - 21st 2016, Brno, Czech Republic. 4. “Development of iron oxide nanoparticles for effective removal of dyes from water”. Paper Presented at 8th International Conference on Textile and Clothing held on August 2-3 2023, Expo Centre Lahore Pakistan.
Professional Courses	<ul style="list-style-type: none"> ▪ “Enhancing Leadership Skills” organized by National Productivity Organization (NPO), Ministry of Industries & Production on June 30, 2010. ▪ “Green Productivity & EMS” organized by National Productivity Organization (NPO), Ministry of Industries & Production on July 08, 2010. ▪ “Effective Communication Skills” organized by National Productivity Organization (NPO), Ministry of Industries & Production on July 20, 2010. ▪ “Change Management” organized by National Productivity Organization (NPO), Ministry of Industries & Production on July 29, 2010. ▪ “Office Automation” 3 Months Computer Course from Institute of E Learning & Modern Studies on August 30, 2010. ▪ “Bio Fuels for Sustainable Development” organized by National Productivity Organization (NPO), Ministry of Industries & Production on September 30, 2010. ▪ “QMS ISO 9001:2008” organized by National Productivity Organization (NPO), Ministry of Industries & Production on October 21, 2010. ▪ “Total Quality Management” organized by National Productivity Organization (NPO), Ministry of Industries & Production on January 20, 2011. ▪ “Colour Fastness Testing of Textiles” organized by Society of Dyers and Colourists UK and SGS Pakistan on September 21-22, 2011.
Book Chapters	<ol style="list-style-type: none"> 1. Removal of Methylene Blue from Aqueous Solutions by Using Iron Impregnated Activated Carbon Web from Waste Acrylic Fibres. Advances in fibrous material science. 2016; pp.347-363. ISBN 978-80- 87269-48- 0. 2. Synthesis and Characterization of Anatase Phase Nanoparticles. Advances in Fibrous Material Science. 2016; pp.399-415. ISBN 978-80- 87269-48- 0.

Research Interests

- Ultrasonic Assisted Wet Processing
- Synthesis and Application of Nanomaterials
- Natural Dyes
- Textile Fibre Technology
- Wastewater Treatment
- Statistical Analysis Techniques
- Textile Testing & Quality Control

Training Workshops and Conferences

1. Attended a One Day Workshop on **“Lean Sigma Application in Garment Manufacturing”**, jointly arranged by UMT, Gen-Prom Project UNDP and SMEDA, Pakistan at University of Management and Technology, Lahore on February 4, 2010.
 2. Attended a Training Workshop on **“Quality and Productivity Improvement”**, jointly arranged by Pakistan Hosiery Manufacturers Association (PHMA) and Small & Medium Enterprises Development Authority (SMEDA) on April 27, 2010.
 3. Certificate of Participation by The Textile Institute UK, SDC UK & UMT Lahore Pakistan in 2 days International Conference **“3rd International Conference on Textile & Clothing (ICTC)”** on March 28-29, 2011.
 4. Attended a training Workshop **“Young Faculty Capacity Sharing Program”**, organized by Directorate of Academics, University of Agriculture, Faisalabad from October 15- 20, 2015.
 5. Participated in **“National Training Workshop on Nanomaterials & One Day Symposium on Nanotechnology Research in Pakistan”**, organized by NIBGE, Faisalabad from December 14- 16, 2015.
 6. Successfully completed a two days training Workshop on **“Cite While You Write”**, organized by University of Agriculture, Faisalabad from February 18- 19, 2016.
 7. Attended a training Workshop **“Hands-on Training of Turnitin”**, organized by Office of Research, Innovation and Commercialization, University of Agriculture, Faisalabad on March 19, 2016.
 8. Attended International Workshop on **“Sustainable Energy Solutions for Community Development in Pakistan”**, organized by University of Agriculture, Faisalabad and University of Kassel-Germany from November 8-9, 2016.
 9. Successfully Completed a Five Days Training Workshop on **“English Language Teaching Training under Transforming English Language Skills by HEC”**, organized by HEC and University of Agriculture, Faisalabad from January 23- 27, 2017.
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10. Attended a Training Workshop **“Technical and Patent Writing”**, organized by Department of Chemistry, University of Agriculture, Faisalabad on January 28, 2017.
 11. Certificate of Participation in **“5th International Conference on Textile & Clothing”** at University of Management and Technology, Lahore held on March 24-25, 2017.
 12. Certificate of Participation in **“1st International Conference on Emerging Trends in Knitting”** held on February 7-8, 2018 at National Textile University Faisalabad.
 13. Attended Training Workshop on **“Outcome Based Education (OBE) and Implementation”** Organized by University of Agriculture Faisalabad in collaboration with Pakistan Engineering Council (PEC), Islamabad on November 29-30, 2018.
 14. Abstract Published in International Conference on **“Water Footprints of the Cotton-Textile Value Chain: Environmental Repercussions from Field to Hanger”** held on January 31 to February 02, 2019 jointly organized by University of Agriculture Faisalabad and BMBF-InoCottonGrow Project Partners.
 15. Certificate of Participation in **“5th International Conference on Value Addition and Innovation in Textiles”** held on March 20- 21, 2019 at National Textile University Faisalabad.
 16. Certificate of Participation in **“2nd UET Archroma-SDC International Conference on Sustainable Textile”** held on April 03, 2019 at UET Lahore, Faisalabad Campus.
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Events

1. Participated as Project Member in **“DICE Textile 2016”** Textile Innovation Event as nominated by University of Agriculture, Faisalabad held on March 21, 2016 at National Textile University Faisalabad.
 2. Participated as Project Member in **“2nd All Pakistan Dice Textile Innovation Event 2017”** held on March 28-29 2017 at National Textile University Faisalabad.
 3. Participated as Project Member in **“2nd Knit to Achieve”** Research Competition held on February 7-8, 2018 at National Textile University Faisalabad.
 4. Participated as Project Member in **“3rd NTU Dice Textile Innovation Event”** held on March 6-7 2018 at National Textile University Faisalabad.
 5. Participated as Project Member in **“3rd Knit to Achieve”** Research Competition held on February 12, 2019 at National Textile University Faisalabad.
 6. Participated as Project Member in **“4th NTU Dice Textile Innovation Event”** held on March 20-21 2019 at National Textile University Fsd.
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