

SIDRA SALEEMI

*Assistant Professor (BPS-19)
Institute of Polymer and Textile Engineering
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Ph.D Scholar

Donghua University, Shanghai, China

Professional Experience

2014 to date

Assistant Professor

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

Responsibilities include.

- Teaching subject Polymer Rheology and Processing and Elastomeric Materials
- Designing Courses for Master, B.Sc. and Diploma
- Conducting Research on Dyeing and Finishing of textiles, Sol-gel coatings, Surface modification, functionalization and crosslinking of smart textiles. Member of Board of Studies
- HEC
- Arrangement of short courses

2013 to 2014

Assistant Professor

In Department of Textile Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan.

Responsibilities include.

- Teaching Dyeing and Printing, Textile Finishing, Fabric Manufacturing and Textile finishing Courses of under Graduate Students.
- Lab In-charge of Textile testing and quality control Laboratory since Aug 2012 to Sep 2014.
- Member of Nanotechnology Research Group

2008 to 2013

Lecturer

In Department of Textile Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan.

Responsibilities include.

- Teaching Courses of under Graduate Students.
- Published Work Book of Dyeing and Printing for Under Graduates Students.

Professional Education

2017-date	PhD in Textile Composite Materials Donghua University, Shanghai- China
2009-2011	M.E in Textile Engineering Mehran University of Engineering and Technology, Jamshoro, Pakistan. CGPA: 4.00/4.00
2004-2008	B.E in Textile Engineering Mehran University of Engineering and Technology, Jamshoro, Pakistan. CGPA: 3.88/4.00
2001-2003	F.Sc (Pre-Engineering) Zain Public School Badin Marks: 828/1100 (75.2%)
1999-2001	Matriculation Fauji Foundation Model School Khoski Marks: 603/850 (70%)

Awards and Achievements

- Awarded “**The J. William Weaver Award**” in recognition of her outstanding contribution to Textile Literature by AATCC in 2021
- Secured First Position with the highest Percentage 87.14 % in the Final year Examination from amongst 1st Position Holder of all Disciplines in the Faculty of Engineering and Declared as the Top of Faculty Graduates of 04 Batch and awarded **Gold Medal** for my meritorious academic achievements
- Secured First Position from First Year to Final year Examination in the Department of Textile Engineering and Declared as the Best Graduate of 04 Batch and awarded **Gold Medal** for my meritorious academic achievements.
- Secured First Position and Awarded **Silver Medal** for my meritorious academic achievements.
- Nominated for **Presidential Award i.e. IZAZ-E SABQAT** for the year 2008 from Mehran University of Engineering and Technology Jamshoro.

Research Domain

- Sol-gel Coatings
- Multifunctional technical textiles
- Surface Modification of Textiles
- Characterization of carbon nanotube yarn
- Application of Carbon Nanotubes in Smart Textiles
- Waste water Treatments

Research Publications

1. **Saleemi, S.**, Aouraghe, M. A., Wei, X., Liu, W., Liu, L., Siyal, M. I., & Xu, F. (2022). Bio-Inspired Hierarchical Carbon Nanotube Yarn with Ester Bond Cross-Linkages towards High Conductivity for Multifunctional Applications. *Nanomaterials*, 12(2), 208.
2. Xiao Xiao Wei, Mohamed Amine Aouraghe, Shasha Pang, Fariat Islam Farha , **Sidra Saleemi**, Kun Zhang, Wei Liu and Fujun Xu” Highly stretchable electro-conductive yarn via wrapping carbon nanotube yarn on multifilament polyester yarn” *Published in Journal of Industrial Textiles* (2020 [DOI: 10.1177/1528083720957404](https://doi.org/10.1177/1528083720957404))
3. **S. Saleemi**, Z. A. Abro, A. H Shah, N. A. Rind, A. Anwar, A. W. Rajput “A Green and Cost-effective Approach to Reutilize the Effluent from Bleaching Process” *Published in journal of Applied and Emerging Sciences Vol (09), Issue (02), (May, 2020)* DOI: [10.36785/BUIITEMS.JAES.277](https://doi.org/10.36785/BUIITEMS.JAES.277)
4. **Sidra Saleemi**, Tayab Naveed, Tabinda Riaz, Hafeezullah Memon ,Javeed Ashraf Awan, M. Irfan Siyal , Fujun Xu and Jihyun Bae.” Surface Functionalization of Cotton and PC Fabrics Using SiO₂ and ZnO Nanoparticles for Durable Flame Retardant Properties” *Published in Coatings (February 1, 2020)* [doi:10.3390/coatings10020124](https://doi.org/10.3390/coatings10020124) .
5. Zhiyong Wang, Jianhua Wu, Xiaoxiao Wei, **Sidra Saleemi**, Wei Liu, Wei Li, Ifra Marriam and Fujun Xu,”Bio-Inspired Microstructure-Reorganized Behavior of Carbon Nanotube Yarn Induced by Cyclic Stretching Training” *Published in Journal of Materials Chemistry C* (2020) [DOI: 10.1039/c9tc06056a](https://doi.org/10.1039/c9tc06056a).
6. Yunfei Bai, Qi Xia, Jianghan Feng, Han Liu, Jialin Zheng, Danyao Xu, **Sidra Saleemi** and Fujun Xu*,”Braided Rope Sensor Based on Carbon Nanotube Yarn”, *Published in Journal of Textile Science & Fashion Technology*, July 2019
7. Amna Siddique, Sharjeel Abid, Faizan Shafiq, Yasir Nawab, Hailou Wang, Baohui Shi, **Sidra Saleemi**, Baozhong Sun,”Mode I fracture toughness of fiber-reinforced polymer composites: A review” *Published in Journal of Industrial Textiles (June 24, 2019)* <https://doi.org/10.1177/1528083719858767>

8. Liyong Wang, Xiaohua Liu, **Sidra Saleemi**, Yinjiang Zhang, Yiping Qiu, Fujun Xu, “*Bending properties and failure mechanisms of three-dimensional hybrid woven spacer composites with glass and carbon fibers*”, Published in *Textile Research Journal* in (March 2019) <https://doi.org/10.1177/0040517519837730>

9. Shahzad Maqsood Khan, Samander Ali Malik, Nafisa Gull, **Sidra Saleemi**, Atif Islam & Muhammad Taqi Zahid Butt,” *Fabrication and modelling of the macro-mechanical properties of cross-ply laminated fibre-reinforced polymer composites using artificial neural network*”, Published in *Advanced Composite Materials* (February 2019)DOI: 10.1080/09243046.2019.1573448.

10. T. Naveed, Y. Zhong, A. Hussain, A. A. Babar, A. Naeem, A. Iqbal, and **S. Saleemi**,” *Female Body Shape Classifications and Their Significant Impact on Fabric Utilization*”, Published in *Fibers and Polymers* (2018), Vol.19, No.12, 2642- 2656, DOI 10.1007/s12221-018-8258-0

11. Chun-Hui Chen, **Sidra Saleemi**, Xiao-hua Liu, Yi-ping Qiu & Fu-Jun Xu,” *Hydrophobic lipophilic modified cotton fabric for oil absorption applications*”, published in *Journal of Natural Fibers*, Poland, (2018), DOI: 10.1080/15440478.2018.1476946

12. **Sidra Saleemi**, Abdul Malik Rehan, Abbasi, Zamir Ahmed Abro, Nadir Ali Rind and Fujun Xu,” *Preparation of Phase Change Material on Polyester/Cotton Blend*”, published in *IOP Conf. Series: Materials Science and Engineering* 414 (2018) 012024 doi:10.1088/1757-899X/414/1/012024

13. Tabinda Riaz, Adnan Admad, **Sidra Saleemi**, Adbul Moqet Hai, Tahir Jamil,” *Synthesis and Characterization of Polyurethane-Cellulose Acetate blend membrane for Chromium (VI) removal*” Published in *Carbohydrates Polymers* 153 (2016) 582-591(ISSN : 0144-8617) I.F = 4.2

14. Samander Ali Malik, **Sidra Saleemi**, Naveed Mangel, “*Predicting Hydrophobicity of Silica Sol Coated Dyed Cotton Fabric by Artificial Neural Network and Regression Techniques* Published in *Indian Journal of Fibers and Textile Research* in march 2016 vol. 41, pp 67-72 (ISSN: 0971-0426), I.F = 0.778

15. Samander Ali Malik, Rabia Almas, Zeeshan Khatri, **Sidra Saleemi**, Chokri Cherif,” *Neural network modeling and principle component analysis of antibacterial activity of chitosan/AgCl-Tio2 colloid treated cotton fabric*”, published in *Fiber and Polymer* 16 (5), 1142-1149, 2015 (ISSN: 1875-0052). I.F = 1.2

16. **Sidra Saleemi**, Farooq Ahmed Arain, Samander Ali Malik, “*Study of Physical Properties of Nano-Silica Coated Cotton Textiles*” Published in Mehran University

Research Journal of Engineering & Technology 34 (2), 202-207, **2015** (ISSN 0254-7821).

17. Farooq Ahmed, **Sidra Saleemi**, Zeeshan Khatri “*Co-Electrospun Poly(<epsilon>-caprolactone)/Cellulose nanofibers- fabrication and characterization*” Published in Carbohydrate Polymers 115 (**2015**) 388–393 (ISSN : 0144-8617) I.F = 3.916.
18. Farooq Ahmed, **Sidra Saleemi**, Abdul Waqar Rajput, Irfan Ahmed Sheikh, and Abdul Razaque Sahito, “*Characterization of Rotor Spun Knitting Yarn at High Rotor Speeds*” Published in Technical Journal, University of Engineering & Technology (UET) Taxila, Pakistan (ISSN: 2313-7770) Vol. 19 No, IV- **2014**.
19. **Sidra Saleemi**, Samander Ali Malik, Uzma Syed and Anwaruddin Tanwari, “*Investigation of wash durability of hydrophobic 100% Cotton dyed Fabric Treated by Sol-Gel Technique*” published on December 1, **2014** in Volume 9, Issue 4, in Journal of Engineered Fibers and Fabric. ISSN: 1558-9250). I.F = 0.807, USA
20. Farooq Ahmed, Abdul Waqar Rajput, Abdul Razaque Sahito, **Sidra Saleemi** “*Impact of Trifling Quantity of Polyester Content on Physical Characteristics of Low Twist Rotor Spun Yarn*” published in Journal of Science International 26(1), 279-282, **2014**, (ISSN 1013-5316) Lahore.
21. Rabia Almas Arain, Nadir Ali Rind, **Sidra Saleemi**, “*Effect of PVA concentration on air permeability of polyurethane laminated cotton fabric and dyeing of laminated fabric*” published in International Journal of Chemical and Environmental Engineering Vol 4- No 6, 378-380,**2013** (ISSN 2078-0737). G.I.F = 0.367
22. **Sidra Saleemi**, Atif Ejaz, Rabia Almas, Anwar uddin Tanwari, “*Sol-gel treatment of direct dyed cotton fabric with Aerosil®200 to enhance water repellency and fastness properties*” published in Journal of Science International 25(4),823- 827,**2013** (ISSN 1013-5316), Lahore.
23. S. A. Malik, N. Mengal, **S. Saleemi**, S. A. Abbasi, “*Blended yarn analysis: Part II - Influence of Twist Multiplier and Back Roller Cot Hardness on Mass Variation, Hairiness and Physical Properties of 15 Tex PES/CO Blended Ring Spun Yarn*” published in Journal of Natural Fibers, 10 (3), 271-281, Poland,**2013**. (ISSN: 1544-0478, 1544046X), I.F = 1.1
24. **Sidra Saleemi**, Nadir Ali Rind “*Nano-silica based sol-gel coating of direct dyed cotton fabrics to improve colorfastness properties*” published in Advance Materials Research Vols. 538-541 (2012) pp 2251-2254. Online available since **2012** /Jun/14. (ISSN: 1662-8958).

Contribution in National and International Conferences

- 1.** Attended 6th International Conference on Value-Addition & Innovation in Textiles (2021), in National Textile University, Faisalabad
- 2.** Attended "Textile Nexus 2021 - An International Conference to Mobilize Industry-Academia Connectivity" organized by Mehran University of Engineering and Technology, Jun 9, 2021.
- 3.** Attended 2019 International Conference on Advanced Fibers and Polymer Materials (ICAFPM 2019) held on Nov, 19th–23rd, 2019, in Donghua University Shanghai, China.
- 4.** Fifth Sino-Africa International Symposium on Textile and Apparel (SAISTA 2019) held on Nov 8-9, (2019) in Donghua University Shanghai, China.
- 5.** 4th Sino-Africa International Symposium on Textile and Apparel and Sino-Africa Cultural Exchange Forum held on Sep 17th-18th, 2018 Donghua University, Shanghai, China.
- 6.** 3rd Sino-Africa Symposium on Textiles and Apparel (SAISTA) 2017 held on Nov 17th- 18th (2017) in Donghua University, Shanghai, China.
- 7.** 2nd International Conference on Chemical and Biological Processes (ICCBP-2013) held during July 4th-6th, (2013) Kuala Lumpur, Malaysia.
- 8.** 4th International Conference on Textiles and Clothing organized by School of Textile & Design, March 28-30, (2013) U.M.T Lahore, Pakistan.
- 9.** International Conference on Advanced Engineering Materials and Technology, July 06-08, (2012) Zhuhai, China.
- 10.** Student Research Paper Conference organized by Department of Textile Engineering, November 05, (2012) M.U.E.T Jamshoro, Pakistan.