

# Dr. Anam Ali Memon

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Department of Textile Engineering,  
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## Academic Experience

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Assistant Professor ( <b>BPS-19</b> )	Department of Textile Engineering, MUET, Jamshoro, Sindh. ( <b>2018 onwards</b> )
Lecturer ( <b>BPS-18</b> )	Department of Textile Engineering, MUET, Jamshoro, Sindh. ( <b>2014-2018</b> ).
Lab.Supervisor ( <b>BPS-16</b> )	Department of Textile Engineering, MUET, Jamshoro, Sindh. ( <b>2013- 2014</b> ).

## Education

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**PhD ( 2015-2018)**  
Department of Organic and Nano Engineering, Hanyang University, Seoul, South Korea.

**M.E ( 2012-2015)**  
Department of Textile Engineering, MUET, Jamshoro, Pakistan.

**B.E (2008-2012)**  
Department of Textile Engineering, MUET, Jamshoro, Pakistan.

**Intermediate ( 2005-2007)**  
Preston Girls College, Hyderabad, Pakistan.

**Matriculation (2003-2005)**  
Beaconhouse school system, Hyderabad, Pakistan.

## Awards

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- Received scholarship from Higher Education Commission (HEC) for commencing PhD at Hanyang University , Seoul, South Korea.
- Awarded Gold Medal for Faculty Top for the year of 2012 in faculty of Engineering and Technology, MUET, Jamshoro, Pakistan.
- Awarded Gold medal for best graduate for the year of 2012 in faculty of Engineering and Technology, MUET, Jamshoro, Pakistan.
- Awarded Silver Medal for 1st Position in B.E Textile MUET, Jamshoro.
- Received academic scholarships for outstanding performance during 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year of B.E by MUET.
- Secured 6<sup>th</sup> position in HSC-II (Intermediate) in 2007.

## Industrial Trainings

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- Internee, Wet processing section, Clariant Pakistan Limited, Karachi, Sindh. (June - July 2011).
- Internee, Garments Section, Unicon limited, Karachi, Sindh. (December 2010)
- Internee, Wet Processing Section, Yunus Textile mills, Karachi, Sindh. (June-July 2010)
- Internee, Spinning Section, Island Textile mills, Kotri, Sindh. (June-July 2009)

## Publications [Impact Points 128.826 ]

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1. *Alvira Ayoub Arbab, Mumtaz Ali, **Anam Ali Memon**, Kyung Chul Sun, Bum Jin Choi, Sung Hoon Jeong* “An all carbon dye sensitized solar cell: A sustainable and low-cost design for metal free wearable solar cell devices” Journal of colloid and interface science, 386-401, (2020), Impact factor 7.48
2. *Alvira Ayoub Arbab, **Anam Ali Memon**, Kyung Chul Sun, Joo Young Choi, Naveed Mengal, Iftikhar Ali Sahito, Sung Hoon Jeong*, “Fabrication of conductive and printable nano carbon ink for wearable electronic and heating fabrics” Journal of colloid and interface science, 95-106, (2019), Impact factor 7.48.
3. *Alvira Ayoub Arbab, Mumtaz Ali, **Anam Ali Memon**, Kyung Chul Sun, Bum Jin Choi, Sung Hoon Jeong*, “An all carbon dye sensitized solar cell: A sustainable and low cost design for metal free wearable solar cell devices”, Journal of colloid and interface science, 38-401, (2020), Impact factor 7.48

4. *Alvira Ayoub Arbab, Naveed Mengal, **Anam Ali Memon**, Kyung Chul Sun, Sung Hoon Jeong*, “ A rational design of low cost and flexible carbon composite dye sensitized solar cell”, *Electrochimica Acta*, 136050 (2020), Impact factor 6.216
5. ***Anam Ali Memon**, Alvira Ayoub Arbab, Iftikhar Ali Sahito, Naveed Mengal, Kyung Chul Sun, Muhammad Bilal Qadir, Yun Seon Choi, Sung Hoon Jeong*, “Facile fabrication of activated charcoal decorated functionalized multi-walled carbon nanotube electrocatalyst for high performance quasi-solid state dye sensitized solar cells” *Electrochimica Acta*, 234, 53-62 ( 2017), Impact factor 6.216
6. ***Anam Ali Memon**, Alvira Ayoub Arbab, Iftikhar Ali Sahito, Kyung Chul Sun, Naveed Mengal, Sung Hoon Jeong*, “Synthesis of highly photocatalytic and electrocatalytic active textile structured carbon electrode and its application in DSSCs” *Solar Energy*, 150, 521-531, ( 2017), Impact Factor 4.674
7. ***Anam Ali Memon**, Supriy A. Patil, Kyung Chul Sun, Naveed Mengal, Alvira Ayoub Arbab, Iftikhar Ali Sahito, Sung Hoon Jeong, Hak Sung Kim*, “ Carbonous metallic framework of multi walled carbon nanotubes/  $\text{Bi}_2\text{S}_3$  nanorods as heterostructure composite films for efficient quasi-solid state DSSCs” *Electrochimica Acta*, 283, 997-1005 (2018), Impact Factor 6.216
8. ***Anam Ali Memon**, Alvira Ayoub Arbab, Supriya A. Patil, Naveed Mengal, Kyung Chul Sun, Iftikhar Ali Sahito, Sung Hoon Jeong, Hak Sung Kim*, “ Synthesis of solution processed f-CNT@ $\text{Bi}_2\text{S}_3$  hybrid film coated linen fabric as a free standing textile structured photocatalyst” *Applied Catalysis A: General*, 566, 87-95, (2018), Impact Factor: 5.006.
9. ***Anam Ali Memon**, Mazhar Peerzada, Iftikhar Ali Sahito, Sadaf Abbassi, Sung Hoon Jeong*, “ Facile fabrication and comparative exploration of high cut resistant woven and knitted composite fabrics using Kevlar and Polyethylene” *Fashion and Textiles*, 5 (5), 11 (2018)
10. *Kyung Chul Sun, **Anam Ali Memon**, Alvira Ayoub Arbab, Iftikhar Ali Sahito, Yoo Sumg Kim, Sang Young Yeo, Yeong Og Choi, Yeon Sang Kim, Sung Hoon Jeong*, “ Electrochemical porous nanocomposite of graphite nanoplatelets anchored with exfoliated activated carbon filler as counter electrode for dye sensitized solar cells. *Solar Energy*, 167, 95-101 (2018) Impact Factor: 4.674
11. *Alvira Ayoub Arbab, Kyung Chul Sun, Iftikhar Ali Sahito, **Anam Ali Memon**, Sung Hoon Jeong*, “ Fabrication of textile fabric counter electrodes using activated charcoal doped multi-walled carbon nanotube hybrids for dye sensitized solar cells” *Journal of Materials Chemistry A*, 4, 1495-1505 (2016) Impact factor 11.301.
12. *Alvira Ayoub Arbab, **Anam Ali Memon**, Iftikhar Ali Sahito, Naveed Mengal, Kyung Chul Sun, Mumtaz, Sung Hoon Jeong*, “ An evidence for an organic N-doped multiwall carbon nanotube heterostructure and its superior electrocatalytic properties for promising dye-sensitized solar cells” *Journal of Materials Chemistry A*, 6. 2018, 8307-8322 (2018) Impact Factor: 11.301
13. *Naveed Mengal, Alvira Ayoub Arbab, Iftikhar A sahito, **Anam Ali Memon**, Kyung Chul Sun, Sung Hoon Jeong*, “An electrocatalytic active lyocell fabric cathode based on cationically functionalized and charcoal decorated graphite composite for quasi-solid state dye sensitized solar cell” *Solar Energy*, 155, 110-120 (2017), Impact Factor: 4.674

14. *Supriya A Patil, Naveed Mengal, **Anam Ali Memon**, Sung Hoon Jeong, Hak Sung Kim*, “ CuS thin film grown using the one pot, solution process method for dye sensitized solar cell applications”  
Journal of Alloys and Compounds, 708, 568-574, (2017) Impact factor: 4.650
15. *Naveed Mengal Alvira Ayoub Arbab, **Anam Ali Memon**, Iftikhar A Sahito, Sung Hoon Jeong* “ A promising hybrid graphite counter electrode doped with fumed silica nano-spacers for efficient quasi-solid state dye sensitized solar cells”  
Electrochimica Acta, 261, 246-255 (2018) Impact Factor: 6.061
16. *Naveed Mengal, Iftikhar Ali Sahito, Alvira Ayoub Arbab, Kyung Chul Sun, Muhammad Bilal Qadir, **Anam Ali Memon**, Sung Hoon Jeong*,“ Fabrication of a flexible and conductive lyocell fabric decorated with graphene nanosheets as a stable electrode material”  
Carbohydrate Polymers 152, 19-25, (2016) Impact factor: 6.2
17. *Sajjad Hussain, Supriya A Patil, **Anam Ali Memon**, Dhanasekaran Vikraman, Hafiz Ghulam Abbas, Sung Hoon Jeong, Hyun-Seok Kim, Hak-Sung Kim, Jongwan Jung*, “Development of a WS<sub>2</sub>/MoTe<sub>2</sub> heterostructure as a counter electrode for the improved performance in dye-sensitized solar cells”, Inorganic Chemistry Frontiers , (Impact Factor 5.984)
18. *Muhammad Bilal Qadir, Y Li, Iftikhar Ali Sahito, Alvira Ayoub Arbab, Kyung Chul Sun, Naveed Mengal, **Anam Ali Memon**, Sung Hoon Jeong*,“ Highly Functional TNTs with superb photocatalytic, optical and electronic performance achieving record efficiency of 10.1% for 1D based DSSCs”  
Small, 12 (33), 4508-4520, (2016) Impact factor: 11.45
19. *Alvira Ayoub Arbab, Naveed Mengal, Iftikhar Ali Sahito, **Anam Ali Memon**, Sung Hoon Jeong*, “ An organic route for the synthesis of cationic porous graphite nanomaterial used as photocatalyst and electrocatalyst for DSSC:  
Electrochimica Acta , 43-53 (2018), Impact factor: 6.031
20. *Sajjid Hussain, Supriya A Patil, **Anam Ali Memon**, Dhanasekaran Vikraman, Bilal Abbas Naqvi, Sung Hoon Jeong, Hyun-Seok Kim, Hak Sung Kim, Jongwan Jung*, “ CuS/WS<sub>2</sub> and CuS/MoS<sub>2</sub> heterostructures for high performance counter electrodes in dye sensitized solar cells”  
Solar Energy, 171, 122-129 ( 2018) Impact factor : 4.674
21. *Abdul Mubeen, Engr Maryam Arain, **Anam Ali Memon***, “Carbon composite coated flexible electrode and its Application in Microbial Fuel Cell”, Carbon 57-60 (2019)
22. *Mumtaz Ali, Faizan Kausar, Salma shahid, Muhammad Zeeshan, Yasir Nawab, Rabia Riaz, **Anam Ali Memon**, Naveed Mengal, Aima Sameen Anjum*, “ Novel derivatives of 3D woven T-shaped composites with improved performance”  
The Journal of the Textile Institute, (2018) Impact Factor: 1.06
23. *Uzma Syed and **Anam Ali Memon***, “ Design and manufacturing of solar jacket for charging the mobile and laptop devices”  
International Journal of Current Engineering and Technology, 2(4), 365-368, (2012)

## **Publications (Practical Work Book)**

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### ***Practical Work Book of Fabric Manufacturing-I***

First Term Third Year Students B.E Textile

### ***Practical Work Book of Applied Physics***

First Term Second Year Students B.E Textile

## **Thesis Projects Supervised**

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- 1. Design and synthesis of highly conductive and electrocatalytic active carbon composite coated flexible electrode** B.E (2020)
- 2. Fabrication of flexible free standing electrode for photo degradation of textile wastewater** B.E (2020)
- 3. Synthesis of carbon composite coated Flexible Electrode and its potential application in Microbial Fuel Cell**  
M.E Thesis (2019)
- 4. Sustainable Flame retardant using Non-Formaldehyde crosslinking agent for cotton**  
Final Year B.E thesis (2019)
- 5. Fabrication of antibacterial cotton fabrics coated with copper oxide and graphene oxide nanocomposite**  
Final Year B.E thesis (2019)

## **Professional Membership**

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Member of Pakistan Engineering Council since 2013.

## Other Skills

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- Communication and presentation skills.
- Leadership qualities
- Research
- MS-OFFICE (Word, Power Point)

## Language

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- English, Urdu and Sindhi.

## Personal Information

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Date of Birth: 5<sup>th</sup> Feb 1989

Marital Status: Married

Nationality: Pakistani

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