

# Dr. SUBHANKAR MAITY



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Google Scholar profile: <https://scholar.google.com/citations?hl=en&user=myVvbxkAAAAJ>

## **Brief BioData**

Dr. Subhankar Maity is appointed as Assistant Professor in The Department of Textile Technology in Uttar Pradesh Textile Technology Institute, Kanpur, India (from Dec 2017). He pursued PhD in Textile Technology from Dr. B R Ambedkar National Institute of Technology, Jalandhar, India, M.Tech. in Textile Engineering from IIT Delhi, and B. Tech. in Textile Technology from College of Textile Technology, Berhampore, W.B., India.

His main research focuses on conductive polymer based electro-conductive textiles, wastewater treatment, graphene coated textiles, heat transfer behavior of fibrous/polymeric materials and related functional textiles. He has over 50 publications in leading refereed journals of materials, textiles and polymer fields, 2 authored book, 2 books are in progress, 30 book chapters, and 18 conference proceedings.

## **Specialization**

Structure and Properties of Fibers  
Knitting Technology,  
Characterization of Fibres and Polymers,  
Statistical Quality Control and Design of Experiments  
Functional Textiles  
Textile Testing

## **Work Experience**

Position	Organization	Period
Assistant Professor	<b>Uttar Pradesh Textile Technology Institute, Kanpur, India</b>	18 <sup>th</sup> Dec., 2017 to current

Assistant Professor	<b>Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, INDIA</b>	From 11 <sup>th</sup> Jan 2016 to 15 <sup>th</sup> Dec 2017.
Assistant Professor	<b>Panipat Institute of Engg. &amp; Tech., Panipat, Haryana, affiliated to Kurukshetra University, INDIA</b>	From 21 <sup>st</sup> July, 2011 to 23 <sup>rd</sup> July, 2012
Management Trainee	<b>Ginni Filaments Limited, (Nonwoven Dept.), Noida, UP, INDIA</b>  <b>Duty and Responsibilities</b> Marketing, product promotion and development of spunlace nonwoven, communicating with manufacturing units and customers, Monitoring of product quality and service etc.	3 <sup>rd</sup> June 2010 to 20 <sup>th</sup> July, 2011
Shift Officer	<b>Alok Industries Ltd., Weaving Plant, Silvassa, Dadra &amp; Nagar Havelli. INDIA</b>  <b>Duty and Responsibilities</b> Supervising of production and quality control of woven textiles.	18 <sup>th</sup> June, 2007 to 31 <sup>st</sup> May, 2008

## Qualifications

Year	Degree/Exam	Institute	Board/University	CGPA/Marks(%)
2017	PhD in Textile Technology	Dr B R Ambedkar National Institute of Technology, Jalandhar, India	-	9.00/85.5% (in Coursework)
2010	M. Tech. in Textile Engineering	Indian Institute of Technology, Delhi, India	-	8.47/84.7%
2007	B. Tech. in Textile Technology	Govt. College of Engg. & Textile Technology, Berhampore, W.B., India	West Bengal University of Technology	8.39/76.27%
2002	Higher Secondary (10+2)	Dhuliapur P. S. Bani Mandir, W. B., India	West Bengal Council of Higher Secondary Education	80 %
2000	Secondary (10)	Dhuliapur P. S. Bani Mandir, W.B., India	West Bengal Board of	85.125%

			Secondary Education	
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## **Publications in International Journals**

1. Pintu Pandita, M. D. Teli, Kunal Singha, Saptarshi Maiti, Subhankar Maity, Extraction and Characterization of Novel Sterculia Foetida Fruit Shell Fibre for Composite Applications, *Cleaner Engineering and Technology*, 4 (2021) 100194.
2. Vivek Jangra, Subhankar Maity, Prashant Vishnoi, A review on the development of conjugated polymer-based textile thermoelectric generator, *Journal of Industrial Textiles*, 2021, Published online ahead of print, doi: 10.1177/1528083721996732, SCI, Impact factor 2.01
3. Subhankar Maity, Shivangi Pandey, Alok Kumar, Influence of needle-punching parameters for the preparation of polypyrrole coated non-woven composites for heat generation, *Tekstilec*, *Tekstilec*, 2021, Vol. 64(2), 172–183. DOI: 10.14502/Tekstilec2021.64.172-183; SCOPUS
4. Pintu Pandit, MD Teli, Gayatri T Nadathur, Saptarshi Maiti, Kunal Singha, Subhankar Maity, Green synthesis of nanoparticle and its application on cotton fabric using Sterculia foetida fruit shell extract, *Journal of Textile Engineering & Fashion Technology*, 2020, 6(6), 257-265.
5. Sujit Kumar Sinha, P. Kanagasabapathi, Subhankar Maity, Performance of Natural Fibre Nonwoven for Oil Sorption from Sea Water, *Tekstilec*, 2020, 63(1), 14-26, DOI: 10.14502/Tekstilec2020.63.14-26 SCOPUS
6. Sujit Kumar Sinha, Akshay Sharma, Subhankar Maity, Thermal Resistance and Moisture Management Behaviour of Nettle/Polyester Nonwoven Fabrics, *Tekstilec*, 2019, 62(4), 258-268, DOI: 10.14502/Tekstilec2019.62.258-268. SCOPUS
7. Subhankar Maity, Ashish Dubey & Supriyo Chakraborty, A Review on Polypyrrole Coated Bio-Composites for The Removal of Heavy Metal Traces From Wastewater, *Journal of Industrial Textiles*, 2019, Published online ahead of print, DOI: 10.1177/1528083719871272 SCI, Impact factor 1.884.
8. Subrata Ghosh, Shraddha Singh, Subhankar Maity, Thermal Insulation Behaviour of Chemically Treated Jute Fibre Quilt, *Journal of Natural Fibres*, Published online ahead of print, 2019. <https://doi.org/10.1080/15440478.2019.1636744> SCI, Impact factor 1.075.

9. Payal Bansal, Subhankar Maity, and Sujit Kumar Sinha, Elastic recovery and performance of denim fabric prepared by cotton/lycra core spun yarns, *Journal of Natural Fibres*, online ahead of print, 2018, DOI: 10.1080/15440478.2018.1558151, SCI, Impact factor 1.075.
10. Subhankar Maity, Reaction Mechanism and kinetics of In-Situ Polymerization of Pyrrole onto Textiles: A Review, *Journal of Polymer Science and Engineering*, (2018) Volume 1, pp 1-15, doi:10.24294/jpse.v1i2.500.
11. Subrata Ghosh, Ripan Das, and Subhankar Maity, Optimization of material and process parameters of fibrous quilt for comfortable heat loss from human body, *Journal of the Textile Institute*, 2019,110 (6): 873-881, DOI: 10.1080/00405000.2018.1531742, SCI, Impact factor 1.174.
12. Arobindo Chatterjee, and Subhankar Maity, A comparative study of Reaction Kinetics of In-Stu Chemical Polymerization of Polypyrrole onto Various Textile Fibres, *Surface and Coatings Technology*, 324 (2017) 569–576. <http://dx.doi.org/10.1016/j.surfcoat.2017.06.018>, SCI, Impact factor 2.589.
13. Subhankar Maity, Arobindo Chatterjee, Polypyrrole Functionalized Polyester Needle-punched Nonwoven Fabrics for Electro-Magnetic Interference Shielding, *Polymer Composites*, 39:3696–3704, 2018.,DOI 10.1002/pc.24399, SCI, Impact factor 2.324.
14. Subhankar Maity, Optimization of processing parameters of in-situ polymerization of pyrrole on woollen textile to improve its thermal conductivity, *Progress in Organic Coatings*, 107 (2017) 48–53, <http://dx.doi.org/10.1016/j.porgcoat.2017.03.010>, SCI, Impact factor 2.858.
15. Arbindo Chatterjee, M. Nivas Kumar and Subhankar Maity, Influence of Graphene Oxide Concentration and Dipping Cycles on Electrical Conductivity of Coated Cotton Textiles, *Journal of the Textile Institute*, 2017, 108(11), 1910-1916, DOI: 10.1080/00405000.2017.1300209. SCI, Impact factor 1.128.
16. Subhankar Maity, Arobindo Chatterjee, Conductive Polymer based Electro-conductive Textile Composites for Electromagnetic Interference Shielding: A Review; *Journal of Industrial Textiles*, 2018, Vol. 47(8) 2228–2252 DOI: 10.1177/1528083716670310 SCI, Impact factor 1.75.
17. 17. Arobindo Chatterjee, Manivannan, and Subhankar Maity, Electro-conductive Palmyra Fibres by in-situ Polymerization of Pyrrole, *Journal of Natural Fibers*, 2016, 14:2, 185-195, DOI: 10.1080/15440478.2016.1193082 SCI, Impact factor 0.0974.

18. Subhankar Maity, Jute Needle-punched Nonwovens: Manufacturing, Properties and Applications, *Journal of Natural Fibers*, 2016, 13:4, 383-396, DOI:10.1080/15440478.2015.1029200, SCI, Impact factor 0.0.974.
19. Subhankar Maity and Arobindo Chatterjee, Textile / Polypyrrole Composites for Sensory Applications, *Journal of Composites*, Volume 2015, Article ID 120516, 6 pages, <http://dx.doi.org/10.1155/2015/120516>.
20. Urvashi Malhotra, Subhankar Maity and Arobindo Chatterjee, Polypyrrole-Silk Electro-conductive Composite Fabric by In situ Chemical Polymerization, *Journal of Applied Polymer Science*, 2015, Volume 132, Issue 4. pp 41336 DOI: 10.1002/app.41336. SCI, Impact factor 1.86.
21. Subhankar Maity and Arobindo Chatterjee, Polypyrrole based electro-conductive cotton yarn, *Journal of Textile Science and Engineering*, 2014, 4(6): 171. doi:10.4172/2165-8064.10001712014.
22. Subhankar Maity, Debi Prasad Gon, & Palash Paul, A Review of Flax Nonwovens: Manufacturing, Properties and Applications, *Journal of Natural Fibre*, 2014, 11:4, 365-390, DOI: 10.1080/15440478.2013.861781, SCI, Impact factor 0.974.
23. Subhankar Maity, Arobindo Chatterjee, Bhupinder Singh and Atinder Pal Singh, Polypyrrole based Electro-Conductive Textiles for Heat Generation, *Journal of the Textile Institute*, 2014, 105(8): 887-893. DOI:10.1080/00405000.2013.861149. SCI, Impact factor 0.77.
24. Subhankar Maity, Arobindo Chatterjee, Preparation and Characterization of Electro-conductive Rotor Yarn by In situ Chemical Polymerization of Pyrrole, *Fibers and Polymers*, 2013, Vol.14, No.8, 1407-1413, DOI:10.1007/s12221-013-1407-6 SCI, Impact factor 1.11.
25. Dipayan Das, Kushal Sen, and Subhankar Maity, Studies on Electro-conductive Fabrics Prepared by In Situ Chemical Polymerization of Mixtures of Pyrrole and Thiophene onto Polyester, *Fibers and Polymers*, 2013, Vol.14, No.3, 345-351. DOI 10.1007/s12221-013-0345-7 SCI, Impact factor 1.11.
26. Mrinal Singha, Kunal Singha, Subhankar Maity, Molecular Chaperones: present scenario and future perspectives, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 2013, Volume 4(2): 636. Impact factor 0.35. SCOPUS (2010-2016)
27. Subhankar Maity, Kunal Singha, Pulak Debnath, Mrinal Singha, Textiles in electromagnetic Radiation Protection, *Journal of Safety Engineering*, 2013, 2(2): 11-19. DOI: 10.5923/j.safety.20130202.01

28. Subhankar Maity, Kunal Singha, Mrinal Singha, Three Dimensional Micro-image analysis of Nonwoven Structure; *Frontiers in Science* 2013, 3(1): 22-26, DOI: 10.5923/j.fs.20130301.04.
29. Kunal Singha, Subhankar Maity, Mrinal Singha, Applying of Fuzzy Logic Interface in Nylon Fiber Production, *Frontiers in Science* 2012, 2(6): 175-180. DOI: 10.5923/j.fs.20120206.07
30. Kunal Singha, Subhankar Maity, Mrinal Singha, The Salt-Free Dyeing on Cotton: An Approach to Effluent Free Mechanism; Can Chitosan be a Potential Option', *International Journal of Textile Science*, 2012, 1(6): 69-77, DOI: 10.5923/j.textile.20120106.03.
31. Debi Prasad Gon, Palash Paul, Kaushik Das, Subhankar Maity, Jute Composites as Wood Substitute, *International Journal of Textile Science*, 2012, 1(6): 84-93, DOI: 10.5923/j.textile.20120106.05.
32. Subhankar Maity, Kunal Singha, Structure-Property Relationships of Needle-Punched Nonwoven Fabric, *Frontiers in Science*, 2012, 2(6): 226-234, DOI: 10.5923/j.fs.20120206.16.
33. Subhankar Maity, Kunal Singha, Debi Prasad Gon, Palash Paul, Mrinal Singha, A Review on Jute Nonwovens: Manufacturing, Properties and Applications, *International Journal of Textile Science*, 2012, 1(5): 36-43, DOI: 10.5923/j.textile.20120105.02.
34. Kunal Singha, Subhankar Maity, Mrinal Singha, 'Spinning and applications of spider silk', *Frontiers in Science*, 2012, 2(5): 92-100, DOI: 10.5923/j.fs.20120205.02.
35. Subhankar Maity, Kunal Singha, Mrinal Singha, Textiles in Earth-Quake Resistant Constructions, *Journal of Safety Engineering*, 2012, 1(2): 17-25, DOI: 10.5923/j.safety.20120102.01.
36. Kunal Singha, Subhankar Maity, Mrinal Singha, Computer Simulations of Textile Non-Woven Structures, *Frontiers in Science*, 2012, 2(2): 11-17, DOI: 10.5923/j.fs.20120202.03.
37. Kunal Singha, Subhankar Maity, Mrinal Singha, Palash Paul, Debi Prasad Gon, 'Effects of Fiber Diameter Distribution of Nonwoven Fabrics on its Properties', *International Journal of Textile Science*, 2012; 1(1): 1-8, DOI: 10.5923/j.textile.20120101.02.
38. Subhankar Maity, Kunal Singha, Mrinal Singha 'Recent Developments in Rapier Weaving Machines in Textiles', *American Journal of Systems Science*, 2012; 1(1): 7-16, DOI: 10.5923/j.ajss.20120101.02.

## **Publications in National Journals**

1. Payal Bansal, Subhankar Maity, Sujit Kumar Sinha, Effects of process parameters on tensile and recovery behavior of Ring-spun cotton/lycra denim yarn, Journal of the Institution of Engineers (India): Series E, (2019), 100(1): 37–45, DOI  
1. 10.1007/s40034-019-00133-5 SCOPUS
2. Sujit Kumar Sinha, Payal Bansal, Subhankar Maity, Tensile and Elastic Performance of Cotton/Lycra Core Spun Denim Yarn, Journal of the Institution of Engineers (India): Series E, (2017), 98(1), 71-78. doi:10.1007/s40034-017-0095-y SCOPUS
3. Subhankar Maity, Characteristics and effects of fibre crimp in nonwoven structure, Journal of the Textile Association, 2014, vol 76, No 6, pp 360-366. SCOPUS
4. Subhankar Maity, The Application of Advanced Control Charts in Textiles, Journal of the Textile Association, 2013, vol 74 (3), pp 131-139. SCOPUS
5. Himansu Shekhar Mohapatra, Arobindo Chatterjee, Subhankar Maity, Nanotechnology in Fibres and Textiles, International Journal of Recent Technology and Engineering (IJRTE), Volume-2, Issue-5, November 2013, pp 132-138.

## **Conference Publications**

1. Subhankar Maity, Oral Talk on “Improvement of Electrical and Thermal Conductivity of Woolen Textiles by Polypyrrole Coating” in National Conference “Sustainable Growth in Textiles SGT 2020” 12-14 Aug, 2020, at Uttar Pradesh Textile Technology Institute, Kanpur, India. Book of Abstract, PP 39.
2. Supriyo Chakraborty, Subhankar Maity, Mukesh Kumar Singh, Proceedings “Nanocellulose: a promising sustainable biomaterial” in National Conference “Sustainable Growth in Textiles SGT 2020” 12-14 Aug, 2020, at Uttar Pradesh Textile Technology Institute, Kanpur, India. Book of Abstract, PP 20.
3. Vivek Jangra, Prashant Vishnoi, Subhankar Maity, Proceedings “thermoelectric energy harvesting- a sustainable approach” in National Conference “Sustainable Growth in Textiles SGT 2020” 12-14 Aug, 2020, at Uttar Pradesh Textile Technology Institute, Kanpur, India. Book of Abstract, PP 33.
4. Gaurav Sonker, Subhankar Maity, Prashant vishnoi, Poster, on “Removal of arsenic from contaminated water by polypyrrole functionalized bio-adsorbents” in National Conference “Sustainable Growth in Textiles SGT 2020” 12-14 Aug, 2020, at Uttar Pradesh Textile Technology Institute, Kanpur, India. Book of Abstract, PP 45.

5. Versa Gangwar, Ramesh Sharma, Surbhi Mishra , Shuchita Tomar, Subhankar Maity, Poster, on “” in National Conference “Sustainable Growth in Textiles SGT 2020” 12-14 Aug, 2020, at Uttar Pradesh Textile Technology Institute, Kanpur, India. Book of Abstract, PP 46.
6. Rahul Kumar Shringirishi, Subhankar Maity, Abha Bhargava, Poster, on “Antimicrobial efficacy of conjugated polymer coated textile”, in National Conference “Sustainable Growth in Textiles SGT 2020” 12-14 Aug, 2020, at Uttar Pradesh Textile Technology Institute, Kanpur, India. Book of Abstract, PP 53.
7. Subhankar Maity, Characterization of Polypyrrole coated Polyester Nonwovens for Heat generation; Oral Talk in International Conference (ICTX 2020) “Innovative Approaches for the Development of Sustainable Textile Products and Processes” on 2-10 Feb 2020, at Kolkata, organized by The Institute of Engineers (India), West Bengal State Centre.
8. Subhankar Maity, Pranjul Vajpayee, Kaushal Kishore, Coir Geotextiles: A sustainable product in future, Poster, International Conference on Recent Trends in materials and Devices (ICRTMD-2019), Article no. PHYCHEM/129, in Book of Abstarct, pp216.
9. Rahul Kumar Shringrishi, and Subhankar Maity, Coating of Textile Fabrics with Conductive Colymers for Anti-Microbial Textile Applications, Poster, International Conference on Recent Trends in materials and Devices (ICRTMD-2019), Article no. PHYCHEM/130, in Book of Abstarct, pp 217.
10. Rahul Kumar Shringrishi, and Subhankar Maity, Anti-microbial properties of conductive polymer based textiles, poster, International Conference on Emerging Trends in Traditional and Technical Textiles (ICETT 2019), 1 – 3 Nov 2019, at Dr. B. R. Ambedkar National Institute of Technology Jalandhar, India, Abstarct no T233, in Book of Abstarcts PP 96-97. ISBN No. 978-93-5382-111-1
11. Subhankar Maity, Polypyrrole coated Functional Adsorbents for Removal of Heavy metals from Wastewater, Oral talk in International Conference on Advances in Polymeric Materials & Human Healthcare(APA-Stermi), 16-18 Oct, 2019, Goa, India.
12. Shivangi Pandey, Subhankar Maity and Alok Kumar, Conductive polymer coated textiles for Heat Generation and UV protection, Poster presentation in 58th Joint Technological Conference and Tech-Tex 2019 conference helod on 15th-16th Feb. 2019 at NITRA Ghaziabad, India
13. Rahul Kumar Shringrishi, Subhankar Maity, Abha Bhargava, Synthesis and Characterization of an Anti-microbial Conjugated Polymer Coated Textiles, Poster



- presentation, International Conference on Advances in Textile Materials and Processes (ATMP 2019), 2-3 Dec, 2019, at Uttar Pradesh Textile Technology Institute, Kanpur, India. Book of Abstract, PP 108.
14. Subhankar Maity, Polypyrrole Coated Wood saw Dust and Jute for removal of Chromium from Contaminated Water, Oral presentation, International Conference on Advances in Textile Materials and Processes (ATMP 2019), 2-3 Dec, 2019, at Uttar Pradesh Textile Technology Institute, Kanpur, India.
  15. Subhankar Maity, Adsorption And Kinetics of In-Situ Chemical Polymerization Of Polypyrrole onto Textile Substrates, Oral presentation, 6th International Conference on Technical Textiles and Nonwovens (ICTN 2018), 6-8 December, 2018, IIT Delhi, New Delhi, India.
  16. Subhankar Maity, Sensory applications of Polypyrrole based Textiles, International Conference on “Advances in Textile Materials and Processes ATMP-2018”, Organized by UP textile Technology Institute in collaboration with IIT Kanpur, on 19-20 Nov, 2018. Oral, Book of Abstract, ISBN:978-93-88237-21-5, pp 55-56
  17. Ashish Dubey, Subhankar Maity, and Supriyo Chakraborty, Polypyrrole Coated Textiles for Wastewater Treatment, International Conference on “Advances in Textile Materials and Processes ATMP-2018”, Organized by UP textile Technology Institute in collaboration with IIT Kanpur, on 19-20 Nov, 2018. Poster, Book of Abstract, ISBN:978-93-88237-21-5, pp 102-103.
  18. Madan Lal Reger, A. I. Amjad, Subhankar Maity, Sakshi Chaudhary & Sharmistha Singh, Oil absorbent Textiles, International Conference on “Advances in Textile Materials and Processes ATMP-2018”, Organized by UP textile Technology Institute in collaboration with IIT Kanpur, on 19-20 Nov, 2018. Poster, ISBN: 978-93-88237-21-5, pp 104.
  19. Shivangi Pandey, Rashmi Dixit, Subhankar Maity, & Alok Kumar, Study of Conductive Polymer Coated Needle-punched Nonwovens for Heat Generation, International Conference on “Advances in Textile Materials and Processes ATMP-2018”, Organized by UP textile Technology Institute in collaboration with IIT Kanpur, on 19-20 Nov, 2018. Poster, ISBN: 978-93-88237-21-5, pp 113-114.
  20. Arobindo Chatterjee and Subhankar Maity, Thermo-electric effects of non-metallic textile composite yarns, 16th World Textile Conference Autex 2016, 8–10 June 2016, Ljubljana, Slovenia, ISBN 978-961-6900-17-1, Article no. 6-54(Proceedings).
  21. Subhankar Maity and Arobindo Chatterjee, Adsorption of Polypyrrole onto Textile Surface at Liquid Solid Interface by In-Situ Polymerization, International Conference

- on Redefining Textiles Cutting Edge Technology of the Future (RTCT 2016), April 8-10, 2016, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab-144011, INDIA (Oral). ISBN 13: 978-93-525498-0-1, page 232-243.
22. Subrata Ghosh, Subhankar Maity, Ripan Das, Design of High Loft Fibrous Material to be used as Quilt, International Conference on Redefining Textiles Cutting Edge Technology of the Future (RTCT 2016), April 8-10, 2016, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab-144011, INDIA (Oral). ISBN 13: 978-93-525498-0-1, page 244-255.
23. Arobindo Chatterjee and Subhankar Maity, Non-metallic/polymeric electro-conductive textiles for novel applications, International Conference on Advanced Materials for Power Engineering, 11-13 December, 2015, Mahatma Gandhi University, Kottayam, Kerala, India (Oral). Book of abstract, IL40, PP 40.
24. Subhankar Maity and Arobindo Chatterjee, Preparation and characterization of electro-conductive textiles, International Conference on Emerging Trends in Traditional & Technical Textiles, 11-12 April, 2014, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab-144011, INDIA (Oral). ISBN: 978-93-5156-700-4, pp 303-306

## **Book Chapters**

1. Kunal Singha, Subhankar Maity, Pintu Pandit, Chapter 6 “Use of AI and Machine Learning Techniques in Knitting” in the book of “ Advanced Knitting Technology” Elsevier, UK, Edited by Subhankar Maity, Sohel Rana, Kunal Singha, Pintu Pandit, 2021, In press
2. Subhankar Maity, Pintu Pandit, Kunal Singha, Chapter 8 “Production of Seamless Knitted Apparels” in the book of “ Advanced Knitting Technology” Elsevier, UK, Edited by Subhankar Maity, Sohel Rana, Kunal Singha, Pintu Pandit, 2021, In press
3. Saptarshi Maiti, Subhankar Maity, Pintu Pandit, Kunal Singha, Sankar Roy Maulik, Chapter 20 “Sustainability Analysis for Knitted Products” in the book of “ Advanced Knitting Technology” Elsevier, UK, Edited by Subhankar Maity, Sohel Rana, Kunal Singha, Pintu Pandit, 2021, In press
4. Subhankar Maity, Kunal Singha, Pintu Pandit, Textile Wastewater Management, Chapter 28, In the book of “Green Chemistry for Sustainable Textiles” Edited by Nabil A. Ibrahim and Chaudhery Mustansar Hussain”, ELSEVIER. Proof read

5. Pintu Pandit, Saptarshi Maiti, Subhankar Maity, Kunal Singha, , Green chemistry in textile processes, Chapter 25, In the book of “Green Chemistry for Sustainable Textiles” Edited by Nabil A. Ibrahim and Chaudhery Mustansar Hussain”, ELSEVIER. Proof read
6. Kunal Singha, Amal Ray, Subhankar Maity, Pintu Pandit, Chapter 15: Chitosan based bionanocomposites in medical applications, in the book “Bionanocomposites in Tissue Engineering and Regenerative Medicine” Elsevier, Edited by Shakeel Ahmed & Annu, 2021, PP 293-308, <https://doi.org/10.1016/B978-0-12-821280-6.00027-1>
7. Kunal Singha, Pintu Pandit, Subhankar Maity, Chapter 20: Applications of alginate-based bionanocomposites in drug delivery, in the book “Bionanocomposites in Tissue Engineering and Regenerative Medicine” Elsevier, Edited by Shakeel Ahmed & Annu. 2021, pp 399-416, <https://doi.org/10.1016/B978-0-12-821280-6.00015-5>
8. Subhankar Maity, Pintu Pandit, Kunal Singha, Chapter 22: Starch Based Bionanocomposites in tissue engineering and regenerative medicines, in the book “Bionanocomposites in Tissue Engineering and Regenerative Medicine” Elsevier, Edited by Shakeel Ahmed & Annu. 2021, pp – 437-450, <https://doi.org/10.1016/B978-0-12-821280-6.00029-5>
9. Subhankar Maity, Kunal Singha, Pintu Pandit, Advanced applications of green materials in electromagnetic shielding applications/usages, In the Book of: Advanced Green Materials, Accepted, Elsevier-Woodhead Publishing, UK. Editor: Shakeel Ahmed. 2021, pp 265-292
10. Subhankar Maity, Kunal Singha, Pintu Pandit, Advanced applications of green materials in wearable e-textiles/usages, In the Book of: Advanced Green Materials, Accepted, Elsevier-Woodhead Publishing, UK. Editor: Shakeel Ahmed. 2021, pp 239-264
11. Kunal Singha, Pintu Pandit, Subhankar Maity, Amal Ray, Vikas Kumar, Advanced Applications of Green Materials in Construction Applications, Chapter 9, In the book of : Advanced Green Materials, Elsevier-Woodhead Publishing, UK. Editor: Shakeel Ahmed. 2021, pp 223-238.
12. Subhankar Maity, Kunal Singha, Pintu Pandit, Saptarshi Maiti, Conjugated Polymer Coated Novel Bio-adsorbents for Wastewater Treatment, Chapter 7 in the Book of “Sustainable Technologies for Textile Wastewater Treatments”, Editor, Subramanian Senthilkannan Muthu, Woodhead Publishing, The Textile Institute Book Series 2021, Pages 157-185, ISBN: 9780323858298, <https://doi.org/10.1016/B978-0-323-85829-8.00003-1>

13. Kunal Singha, Subhankar Maity, Pintu Pandit, Saptarshi Maiti, Shanmugasundaram O. Lakshmanan, Nanotechnologies for Waste Water Treatment, in the Book of “Sustainable Technologies for Textile Wastewater Treatments”, Editor, Subramanian Senthilkannan Muthu, Woodhead Publishing, ISBN: 9780323858298, The Textile Institute Book Series, 2021, Pages 1-12, <https://doi.org/10.1016/B978-0-323-85829-8.00009-2>
14. Pintu Pandit, Saptarshi Maiti, Subhankar Maity, Kunal Singha, Treatment of Textile Waste Water by Agricultural Waste Biomasses, Chapter 6 in the Book of “Sustainable Technologies for Textile Wastewater Treatments”, Editor, Subramanian Senthilkannan Muthu, Woodhead Publishing, ISBN: 9780323858298, The Textile Institute Book Series, 2021, Pages 137-156, <https://doi.org/10.1016/B978-0-323-85829-8.00007-9>
15. Saptarshi Maiti, Pintu Pandit, Kunal Singha, Subhankar Maity, “Zero Liquid Discharge Wastewater Technologies” Chapter 9 in the Book of “Sustainable Technologies for Textile Wastewater Treatments”, Editor, Subramanian Senthilkannan Muthu, Woodhead Publishing, ISBN: 9780323858298, The Textile Institute Book Series, 2021, Pages 209-234, <https://doi.org/10.1016/B978-0-323-85829-8.00006-7>
16. Subhankar Maity, Kunal Singha, Pintu Pandit, Chemical Risk Assessment in Textile and Fashion, in the book of Chemical Management in Textiles and Fashion. Edited by Dr. Subramanian Senthilkannan Muthu, Elsevier, 2020. PP 53-78 <https://doi.org/10.1016/B978-0-12-820494-8.00003-4>
17. Pintu Pandit, Kunal Singha, Subhankar Maity, Green Chemistry in Textile and Fashion, in the book of Chemical Management in Textiles and Fashion. Edited by Dr. Subramanian Senthilkannan Muthu, Elsevier, 2020. Elsevier, PP 177-203. <https://doi.org/10.1016/B978-0-12-820494-8.00009-5>
18. Jayant Kumar, Kunal Singha, Pintu Pandit, Subhankar Maity, Amal Ray; Challenges for Waste in Fashion and Textile Industry; Chapter 2, in the book of “Recycling from Waste in Fashion and Textiles: A Sustainable & Circular Economic Approach”, Edited by Pintu Pandit, Shakeel Ahmed, Kunal Singha and Sanjay Shrivastava, Scrivener Publishing LLC, 2020, (19-31).
19. Kunal Singha, Pintu Pandit, Subhankar Maity, Rajni Srivasatava, Jayant Kumar, Sustainable Strategies From Waste for Fashion and Textile, Chapter 9 in the book of “Recycling from Waste in Fashion and Textiles: A Sustainable & Circular Economic Approach”, Edited by Pintu Pandit, Shakeel Ahmed, Kunal Singha and Sanjay Shrivastava, Scrivener Publishing LLC, 2020, (199-211).

20. Subhankar Maity, Kunal Singha, Pintu Pandit and Amal Ray, Circular Economy in Fashion and Textile From Waste, Chapter 11 in the book of “Recycling from Waste in Fashion and Textiles: A Sustainable & Circular Economic Approach”, Edited by Pintu Pandit, Shakeel Ahmed, Kunal Singha and Sanjay Shrivastava, Scrivener Publishing LLC, 2020, (235–249).
21. Vikas Kumar, Kunal Singha, Pintu Pandit, Jayant Kumar, Subhankar Maity; Sustainability Innovations Coupled in Textile and Fashion, Chapter 14, in the book of “Recycling from Waste in Fashion and Textiles: A Sustainable & Circular Economic Approach”, Edited by Pintu Pandit, Shakeel Ahmed, Kunal Singha and Sanjay Shrivastava, Scrivener Publishing LLC, 2020, (299-318).
22. Subhankar Maity, Manoj Kumar Mondal, Pintu Pandit, and Kunal Singha, Future Mobilizations and Paths of Waste—Towards Best Solution, Chapter 15 in the book of “Recycling from Waste in Fashion and Textiles: A Sustainable & Circular Economic Approach”, Edited by Pintu Pandit, Shakeel Ahmed, Kunal Singha and Sanjay Shrivastava, Scrivener Publishing LLC, 2020, (321–340).
23. Arobindo Chatterjee & Subhankar Maity, Advanced electromagnetic interference shielding textiles and clothing, in the book of “Advances in Functional and Protective Textiles.” Editors: B S Butola, Shahid-ul-Islam, Elsevier, Woodhead Publishing, 1st June 2020, ISBN 978-0-12-820257-9, pp 457-491, DOI: 10.1016/B978-0-12-820257-9.00018-7
24. Pintu Pandit, Kunal Singha, Vikas Kumar, Subhankar Maity, Advanced flame-retardant agents for protective textiles and clothing, in the book of “Advances in Functional and Protective Textiles.” Editors: B S Butola, Shahid-ul-Islam, Elsevier, Woodhead Publishing, 1st June 2020, ISBN 978-0-12-820257-9. Pp 397-414, DOI: 10.1016/B978-0-12-820257-9.00016-3
25. Amal Ray, Kunal Singha, Pintu Pandit, Subhankar Maity, Advanced ultraviolet protection for protective textiles and clothing, in the book of “Advances in Functional and Protective Textiles.” Editors: B S Butola, Shahid-ul-Islam, Elsevier, Woodhead Publishing, 1st June 2020, ISBN 978-0-12-820257-9, pp 243-260, DOI: 10.1016/B978-0-12-820257-9.00011-4
26. Subhankar Maity, Kunal Singha & Pintu Pandit, Self-Cleaning Finishes for Functional and Value added Textile Materials" in the book " Advances in Functional Finishing of Textiles, Textile Science and Clothing Technology, M. Shahid and R. Adivarekar (eds.), Springer Nature Singapore Pvt. Ltd. 2020, [https://doi.org/10.1007/978-981-15-3669-4\\_9](https://doi.org/10.1007/978-981-15-3669-4_9)

27. Singha, Kunal, Subhankar Maity, and Pintu Pandit. "Advanced Dyeing or Functional Finishing." In the book of "Frontiers of Textile Materials: Polymers, Nanomaterials, Enzymes, and Advanced Modification Techniques", Editors: Mohd Shabbir Shakeel Ahmed Javed N. Sheikh, Scrivener Publishing LLC, (2020): 291-308. <https://doi.org/10.1002/9781119620396.ch12>
28. Singha, Kunal, Subhankar Maity, and Pintu Pandit. "UV Protection via Nanomaterials." In the book of "Frontiers of Textile Materials: Polymers, Nanomaterials, Enzymes, and Advanced Modification Techniques", Edited by Mohd Shabbir, Shakeel Ahmed, and Javed N. Sheikh (eds.) Scrivener Publishing LLC, pp 153–166, 2020. <https://doi.org/10.1002/9781119620396.ch7>
29. Subhankar Maity, Natural fibre nonwovens, Chapter 1, pp 1-36, In the book of "Non-Woven Fabrics: Manufacturing and Applications", Edited by Rembrandt Elise, NOVA Science Publishers, Inc.. NY 11788-3619, USA. ISBN: 978-1-53617-587-5, 2020 <https://novapublishers.com/shop/nonwoven-fabric-manufacturing-and-applications/>
30. Arobindo Chatterjee, Subhankar Maity, Electroconductive Textiles, in the book of Advanced Textile Engineering Materials, Edited by Shahid-ul-Islam and B.S. Butola, First edition. John Wiley & Sons, Inc.; Hoboken, New Jersey, 2018. LCCN 2018032115, ISBN 9781119488071
31. Arobindo Chatterjee, Subhankar Maity, Sohel Rana, and Raul Fanguero, Reinforcements and Composites with Special Properties; Springer Science+Business Media Singapore 2016, S. Rana and R. Fanguero (eds.), Fibrous and Textile Materials for Composite Applications, Textile Science and Clothing Technology, DOI 10.1007/978-981-10-0234-2\_10, ISSN: 2197-9863, ISBN: 978-981-10-0232-8

## **Edited Books**

1. Subhankar Maity, Pintu Pandit, Kunal Singha, Functional and Technical Textiles, Woodhead Publishing, UK, Elsevier, Textile Institute Book Series, Ongoing, to be published in 2022 .
2. Pintu Pandit, Subhankar Maity, Kunal Singha, Textile Dyes and Pigments: A Green Chemistry Approach, Wiley-Scrivener, USA, Ongoing to be published in 2022.
3. Subhankar Maity, Sohel Rana, Pintu Pandit, Kunal Singha, Advanced Knitting Technology, Woodhead Publishing, UK, Elsevier, Textile Institute Book Series, ISBN: 9780323855341, 2021.

4. Kunal Singha, Subhankar Maity, Mrinal Singha, Spinning and Applications of Spider Silk, LAP LAMBERT Academic Publishing, Germany, 2014. ISBN-13: 978-3-659-31653-1, EAN: 9783659316531.

### **Seminar/Workshop/Conference Organized**

1. Organizing National Conference on “Sustainable growth in Textiles (SGT 2020) at Uttar Pradesh Textile Technology Institute, in collaboration with UICT NMU Jalgaon from 12-14 th Aug. 2020 in the capacity of Convenor.
2. Organizing Online Hackathon on “Design & performance of components of PPE for Fighting against COVID-19” at Uttar Pradesh Textile Technology Institute, in collaboration with UICT NMU Jalgaon on 01.05.2019.
3. Organizing International Conference on “Advances in Textile Materials and Processes 2019” at Uttar Pradesh Textile Technology Institute, in collaboration with UICT NMU Jalgaon on 2-3 Dec 2019 in the capacity of Organizing Secretary.
4. Organizing workshop on Sustainability in Textile Chemical Processing at Uttar Pradesh Textile Technology Institute on 11-12 Jan 2019 under TEQIP III.
5. Organizing International Conference on “Advances in Textile Materials and Processes 2018” at Uttar Pradesh Textile Technology Institute, in collaboration with IIT Kanpur on 19-20 Nov 2018. In the capacity of Joint Organizing Secretary.
6. Organizing Workshop on “Advance Data Analytics and Mathematical Modelling with Matlab” at Uttar Pradesh Textile Technology Institute, Kanpur on 15th March 2018 in the capacity of Coordinator.
7. Organizing and attending International Workshop in ‘Innovations and Opportunities in Textiles’ organizer at Panipat Institute of Engineering and Technology, Panipat on November 5-6, 2011.

### **Seminar/Workshop/Conference Attended**

1. Co-chaired a Technical Session in National Conference “Sustainable Growth in Textiles SGT 2020” 12-14 Aug, 2020, at Uttar Pradesh Textile Technology Institute, Kanpur, India.
2. Attended webinar on “Career Opportunities & Stress Management” organized by UPTTI Kanpur on 14th June 2020.

3. Participated in online national workshop on “Outcome based Education”, jointly organized by SPIU UP, AKTU Lucknow and Institute of Engineers India on 10th June 2020.
4. Participated Webinar on “Virtual Teaching Learning with Google Classroom, Google meet & Youtube”, organized by Bundelkhand Institute of Engineering and Technology, Jhansi, in association with SPIU UP, on 18th May 2020.
5. Attended Webinar on “New Opportunities for Technical Students in Post COVID Scenario” by Prof. Durg Singh Chauhan, Founder VC, Dr. A.P.J. Abdul Kalam Technical University, Lucknow on 17th May 2020.
6. Attended “National Webinar on Virtual lab” organized by Institute of Engineering and Technology, Ayodhya and SPIU UP in collaboration with Dr. B R Ambedkar Institute of Technology, Bengaluru on 16th April 2020.
7. Attended workshop “Train the trainers on Examination Reforms”, organized by BVB College of Engineering & Technology, Hubballi, in collaboration with NPIU at KLE Technological University, Hubballi, Karnataka on 20 – 22 Jan 2020.
8. Attended Workshop on “NBA Accreditation from Output to Outcome” by State Project Implementation Unit, Lucknow, UP under the aegis of NPIU New Delhi on 12th April 2019.
9. Participated two days workshop on “Communication and Personality Development” organized by UPTTI Kanpur on 01 – 03 Oct 2018 under TEQIP III.
10. Participated workshop on “Advanced Analytical Techniques” organized by Harcourt Butler Technical University Kanpur at HBTU Kanpur during 19-22 Sept, 2018.
11. Participating Seminar on The Art of Shirt Making organized by TANTU Textile Alumni Association on 15th Sept 2018 at India International Centre, Max Muller Marg, New Delhi, India.
12. Attended Workshop on NBA Accreditation – Criteria, Process & Execution on 11th and 12th Sept 2018 organized by State Project Implementation Unit-UP under TEQIP III at Lucknow.
13. Attended workshop on “Outcome Based Accreditation for Undergraduate Engineering Programs” organized by HBTU Kanpur and UPTTI Kanpur at HBTU Kanpur during 22-23rd March, 2018.
14. Attended National Seminar on “Thermal Behavior of materials” at UP textile Technology Institute, Kanpur on 27-28th Feb 2018.



15. Attended Workshop on Filter Media Characterization and Technology Transfer Event, at NIT Jalandhar, on 15th Dec, 2014.
16. Attending Short Term Course on Garment Technology:- at NIT Jalandhar on June 10-14, 2013.
17. Attended Workshop on Statistical Quality Control in Textile Industry:- at NIT Jalandhar, on 30th April to 1st May, 2013.
18. Attended Workshop under National knowledge Network on 'Modeling and Simulation of Physical Systems' at NIT Jalandhar, on 22nd to 25th April, 2013.
19. Attended National Seminar on 'Nonwovens and Technical Textiles' at NIT Jalandhar, on 5th to 6th October, 2012.
20. Attended National conference on 'Emerging trends in textile, fibre & apparel engineering'; Govt. College of Engg. And Textile Technology, Berhampore, West Bengal; March 18-19, 2006. (Poster Presentation)

### **Faculty Development Program Attended**

1. Completed 8 weeks NPTEL course "Testing of Functional and Technical Textiles" at NITTTR Bhopal, from during Feb - Apr 2020, Awarded ELITE certificate Dec 2021.
2. Attended two weeks short term training on Induction Program Phase I at NITTTR Bhopal, from during 8-19 July 2019.
3. Attended Short Term Course on "Scanning Electron Microscopy – Imaging, EDS and EBSD" at Department of Metallurgy and Materials Engineering, Indian Institute of Technology, Roorkee, from 17th to 21st June 2019.
4. Attended Professional Development training (PDT) under TEQIP III held during May 06-10, 2019, at Indian Institute of management, Kashipur, India.
5. Attended Faculty Development Program "Recent Advances in Chemical Engineering" at Deptt. of Chemical Engineering, Harcourt Butler Technical University Kanpur, during 23rd July 2018 to 27th July 2018.
6. Attended Summer Training Program on Active learning for Senior Faculty at Indian Institute of Technology, Kanpur, during 2nd July 2018 to 6h July 2018.
7. Attended Short term course under TEQIP-III on Sustainability in Textile Industries, at Indian Institute of Technology, Delhi, during 5th March to 7th march 2018.

8. Attended Faculty Development Program Sponsored by Deptt. of Science and Technology, Govt. of India, New Delhi organized by CIMCO, at UPTTI, Kanpur during 9th March 2018 to 22nd March 2018.
9. Attended Faculty Development Program on Apparel Product Design at NIT Jalandhar on February 11-13, 2016.

### **Editorial Board Member of Journal**

1. Editorial Board Member of **Journal of Polymer Science and Engineering** (ISSN: 2578-1855), EnPress Journals, Peer-reviewed, open access INTERNATIONAL journal.
2. Editorial Board Member of International **Journal of Clothing Science**, Scientific & Academic Publishing, Peer-reviewed, open access INTERNATIONAL journal.
3. Editorial Board Member of **Advances in Research** (ISSN: 2348-0394), Peer-reviewed, open access INTERNATIONAL journal.

### **Membership of Professional Bodies**

1. Member of the Board of Academic Affairs (BoAA), Indian Institute of Handloom Technologies, Ministry of Textiles, Govt. of India. June 2020
2. Life Member of Asian Polymer Association (APA); Membership no. L 564. Dec 2019