



Wool Research Association

List of important research and review publications

- 1) Vaibhav Vankundre and Shishir Tyagi, **“Indian Wool Based Sustainable and Natural Materials as Alternative for synthetic Thermal Insulation Materials in Building Construction”**, Textile Value Chain, Volume 13, Issue No. 05, page no. 70-75, May 2025
- 2) Atharvan Deshpande, Sharan Shetty, Amit Yadav & Mayur Basuk, **“Denim Fabric: Construction, Thermophysiological Comfort and Future Trends”**, IJIRAE: International Journal of Innovative Research in Advanced Engineering, ISSN: 2349- 2163, Volume 11, Issue 03, March 2024.
- 3) Amit Yadav & Mayur Basuk, **“Sustainable packaging of agro-products in Agro textile: A review”**, COLOURAGE: February 2024.
- 4) Vaibhav Vankundre and Shishir Tyagi, **“Evolutionary Significance and Sustainable Applications of Coarser Grade Wool Fibers: A Review”** JUNIPER: Current Trend in Fashion Technology & Textile Engineering, ISSN: 2577- 2929, Volume 9, Issue 1, January 2024
- 5) Mayur Basuk & Amit Yadav, **“Light- Sensitive Colorants & its utilization in Smart Chameleonic Textile”**, JUNIPER: Current Trend in Fashion Technology & Textile Engineering, Volume 8, Issue 5- During the year 2023-24 following Article/ write up were published by technical staff of November 2023
- 6) Mayur Basuk, Shishir Tyagi and RV Adivarekar , **“Assessment of Drying Rate, Moisture Management & Comfort Properties of Fabrics for Sport Application”**, JUNIPER: Current Trend in Fashion Technology & Textile Engineering, DOI: 10.19080/CTFTTE.2023.08.555736, April 2023
- 7) Smita Bait, Suvidha Shinde, Ravindra Adivarekar & Nagaiyan Sekar, **“ESIPT Core Containing Benzothiazole and Benzimidazole Based Fluorescent Acid Azo Dyes for Protein Fiber: Synthesis, Spectral Characteristics, and Fastness Evaluation”**, POLYCYCLIC AROMATIC COMPOUNDS <https://doi.org/10.1080/10406638.2022.2061534>, Published on 12 Apr 2022.
- 8) Mayur Basuk, Smita Bait, R.V. Adivarekar, **“Development of Sustainable Waterproof Breathable Fabric for applications in Sportech and Meditech”**, 34th National Convention of textile Engineers and national Conference, on Innovative Textile Materials, September 10-11, 2022, Page No. 106-116, Organised by IIT Kanpur.
- 9) Mayur Basuk, Smita Bait, R.V. Adivarekar, **“Study of Thermo Physiological Comfort Properties of Modal & Blended Fabric”**, Proceedings of Book of Papers, 34 National Convention and



Wool Research Association

Seminar on “Innovation Textile Materials” organised by The Institution of Engineers (India), Kanpur Local centre at Outreach Auditorium, IIT- Kanpur, 10-11 September 2022.

- 10) Mayur Basuk, Suman Deepak Mundkur & R.V. Adivarekar, **“Recycling of Carpets & Woolen Textiles”**, Colourage, Oct. 22, page 28 -31.
- 11) Mayur Basuk, Shishir Tyagi, K.K. Misra, Pradeep Kulshrestha, **“Textile Reinforced Concrete Composite Material & Pultrusion Products for Modular Houses”**, Textile Value Chain, Vol. 10, issue 11 November 22, page 75-77.
- 12) Mayur Basuk, R.V. Adivarekar, **“Eco Friendly & Sustainable fibers for Sportech”**, Chemical Fibers International, Nov 22, page 188.
- 13) Mayur Basuk, R.V. Adivarekar, **“Sweating Thermal Manikin System for Evaluation of Thermal & Moisture Comfort of Sportswear: A Critical Review”**, the Asian Textile Journal, Jan-Feb 2023, pp 21-23.
- 14) Smita Bait, **“A study on multifunctional protein fibre with UV protection, moth repellency and antibacterial properties using ESIPT core containing benzimidazole and benzothiazole based functional acid azo dyes”**, Journal of the Indian Chemical Society, Volume 98, Issue 12, December 2021, 100236, <https://doi.org/10.1016/j.jics.2021.100236>.
- 15) Smita Bait, **“ESIPT Core Containing Benzothiazole and Benzimidazole Based Fluorescent Acid Azo Dyes for Protein Fiber: Synthesis, Spectral Characteristics, and Fastness Evaluation”**, Polycyclic Aromatic Compounds, <https://doi.org/10.1080/10406638.2022.2061534>.
- 16) Shishir Tyagi, K.K. Misra, **“Covid 19 in India: WRA designs indigenous cost effective sanitizing cum disinfection chamber”**, in Textile value chain, dated: April 13, 2020.
- 17) Smita Bait, Shishir Tyagi and Mayur Basuk, **“Reusable Breathable PPE coverall for COVID Warriors”**, in Textile value chain, June 2020.
- 18) Devvert Ruhela, Aniket Gajbhiye, **“Application of Various Optical Brightening Agents (OBA’S/FWA’S) For Value Addition of Indian Textiles”**, in International Journal of Creative Research Thoughts, Volume 8, Issue 7, July 2020.
- 19) Mrinal Choudhari, **“Detailed activates of Wool Research Association in Marathi”**, in Diwali special issue of Udyojag Magazine of Maharashtra Centre for Entrepreneurship Development (MCED), November 2020.



Wool Research Association

- 20) Smita Bait, **“ESIPT core containing Benzothiazole and Benzimidazole based fluorescent acid azo dyes for protein fibre : synthesis, spectral characteristics and fastness evaluation”** to Polycyclic Aromatic Compounds magazine.
- 21) Smita Bait, **“Synthesis, Characterization and dyeing performance of ESIPT core containing Benzothiazole and Benzimidazole based fluorescent acid azo dyes”** to Coloration Technology.
- 22) Smita Bait, **“A study on multifunctional protein fibre with UV protection, moth repellency and antibacterial properties using ESIPT core containing Benzimidazole and Benzothiazole based functional acid azo dyes”** to Journal of Indian Chemical Society.
- 23) Mayur Basuk, **“Evaluating the Far Infrared Rays (FIR) Reflecting Responsive Textiles”**, published on web portal <https://www.textilemates.com/>; May 2019; <https://www.textilemates.com/infrared-reflecting-responsive-textiles>.
- 24) Mayur Basuk, Shishir Tyagi, Devvert Ruhela, **“Non-Newtonian fluids & its applications in Textiles”**, Review International Journal of Emerging technologies & Innovative Research (JETIR), June 2019 Vol. 6, Issue 6, Page 942-945.
- 25) Mayur Basuk, Shishir Tyagi, **“A study of developed membrane bioreactors based effluent treatment plant for woollen sector including carpet”**, International journal of research and analytical reviews (IJRAR), Volume.6, Issue 4, Page No pp.131-136, October 2019.
- 26) Mayur Basuk, Shishir Tyagi, Mrinal Choudhari, **“Recent R & D initiatives and innovative machine at WRA”**, Textile conclave at VJTI.
- 27) Smita Bait, **“Development of sportswear with enhanced Moisture Management properties using cotton and regenerated cellulosic fibres”**, Indian Journal of Fibres and Textile Research, Vol 44, March 2019, pp24-30 (Impact factor- 0.511).
- 28) Smita Bait, Suvidha Shinde, Ravindra Adivarekar, Nagaiyan Sekar, **“Synthesis, characterization and dyeing performance of UV ray's protective mono azo acid dyes based on 4-hydroxy benzophenone”**, AATCC Journal of Research, Vol. 7, No. 2, 2020, 19-26 (DOI: 10.14504/ajr.7.2.4) (Impact factor- 0.74).
- 29) Smita Bait, Suvidha Shinde, Ravindra Adivarekar, Nagaiyan Sekar, **“Multifunctional properties of benzophenone based acid dyes: Synthesis, spectral properties and computational study”**,



Dyes & Pigments 2020, DYPI 108420, doi.org/10.1016/j.dyepig.2020.108420 (Impact factor-4.018).

- 30) Smita Bait, Suvidha Shinde, Ravindra Adivarekar, Nagaiyan Sekar, **“Benzophenone based disperse dyes for UV protective clothing: synthesis, comparative study of UPF, light fastness and dyeing properties and computational study”**, The Journal of The Textile Institute, <https://doi.org/10.1080/00405000.2020.1747165> (Impact factor- 1.063).
- 31) Supriya Pandit, Mayur Basuk, Devvert Ruhela & Smita Bait, **“Effect of Curing time on Development of Water Based Polyurethane Coated Polyester”**, International Journal of Development Research, Vol. 09, Issue, 01, pp.25293-25297, January, 2019.
- 32) Smita Bait, Neeraj Srivastava, Jogendra Behera & Vijay Ramakrishnan, **“Development of sportswear with enhanced Moisture Management properties using cotton and regenerated cellulosic fibres”**, Indian Journal of Fibres and Textile Research, Vol 44, March 2019, pp 24-30.
- 33) Smita Bait, Supriya Pandit, Mayur Basuk & Devvert Ruhela, **“Effect of Curing Temperature on Development of Water Based Polyurethane Coated Polyester”**, International Journal of Research and Analytical Reviews, Vol. 5(4), 967-973.
- 34) Smita Bait, Supriya Pandit, Suvidha Shinde, Nagaiyan Sekar, Ravindra Adivarekar, **“Synthesis and application of uv ray's protective mono azo acid dyes on wool, silk and nylon”**, International Journal of Modern Trends in Engineering and Research, July 2018, Vol. 5, Issue 7, Page 7-22.
- 35) Mayur Basuk, Smita Bait, Saptarshi Maiti, Ravindra Adivarekar, **“Effect of Plasma Treatment on Moisture Management Properties and Drying Behavior of Polyester and Blend Fabrics for Sportswear Application”**, Current Trends in Fashion Technology & Textile Engineering, May 2018, Vol. 3, Issue 5, Page 1-8.
- 36) Shishir Tyagi, Chetan Mahajan, **“To develop a smart indigenous sleeping bag with active Heating property for cold climates”**, International journal of modern trends in Engineering and Research, Volume 05, Issue No. 12, pages 1-7, December 2018.
- 37) M. Basuk, S. Pandit, **“Eco friendly microencapsulated moth repellent and antimicrobial finish for Pashmina & Wool fabrics”**, paper accepted for publication in Melliand International, March 2019 issue.
- 38) M. Basuk, **“Fabric Lamination: Type, Defects & Remedial Measures”**, Dye Chem Pharma Business News, April 2018, page 32-36.



- 39) M. Basuk & J. Behera, **“Enhancement of functional properties of textiles through lamination using hot melt coating and lamination technology”**, International Dyer & Technical Finisher, Issue 4, 2018.
- 40) Smita Bait, Supriya Pandit, Suvidha Shinde, Nagaiyan Sekar, and Ravindra Adivarekar, **Synthesis and Application of UV Ray’s Protective Mono Azo Acid Dyes on Wool, Silk and Nylon**, **International Journal of Modern Trends in Engineering and Research**, Vol 5, issue 7- 2018, Page no 7-22.
- 41) A. Sengupta, M. Basuk, A. Samanta & J Udakhe, **“A synopsis on functional sportech products for adventure sports”**, Textile Times, June-July 2014 pp 9, June-July 2014.
- 42) Mayur Basuk and Smita Bait, **“Moisture Management Properties of Textiles and Its Evaluation”**, March 2018, Web portal WTIN
<https://www.wtin.com/article/2018/march/190318/moisture-management-properties-of-textiles-and-their-evaluation/?Freeviewlinkid=85447>.
- 43) Mayur Basuk & Girish Kherdekar, **“A Synopsis on Coating & Lamination in Textiles: Process & Applications”**, Textile Value chain, March 2018.
- 44) Mayur Basuk & Jagadananda Behera, **“A review on woollen cloth’s moth and its remedies”**, Bangladesh Textile Today, Feb. 2018, Vol. 11, Issue 2, Page 68 -77.
- 45) Shishir Tyagi and Girish Kherdekar, **“Design and Development of Smart Sportswear Used for Various Sports”**, International Journal of Modern Trends in Engineering and Research (IJMTER), Volume 04, Issue 11, November– 2017, page 95-100.
- 46) Chetan Mahajan, Girish Kherdekar, Anil Kumar Sharma, **“Development of Keratin Based Poly Vinyl Alcohol (PVA) Electro spun Nanofibrous Mat from Wool Waste for Air Filtration”**, International journal of modern trends in Engineering and Research, Volume 04, Issue 11, pp 218-224, 2017.
- 47) Shishir Tyagi & Girish Kherdekar, **Design and development of smart sportswear used for various sports**, **International Journal of Modern Trends in Engineering and Research (IJMTER)**, Volume 04, Issue 11, 2017, page no. 95-100.
- 48) Chetan Mahajan, Girish Kherdekar, Anil Kumar Sharma, **“Development of Keratin Based Poly Vinyl Alcohol (PVA) Electro spun Nanofibrous Mat from Wool Waste for Air Filtration”**, International Journal of Modern Trends in Engineering and Research, Volume 04, Issue 11, 2017, pp 218-224.
- 49) Mayur Basuk & Girish Kherdekar, **“Thermo-regulatory Properties of Wool Fabrics by Microencapsulated PCM”**, International Journal of Modern Trends in Engineering and Research, July 2017, Vol. 4, Issue 7, Page 30 – 37.



Wool Research Association

- 50) A.K. Sharma, Seema Patel, Jagadananda Behera & Girish Kherdekar, **“COE - Sportech & Its Relevance”**, textile value chain, May 2017 issue.
- 51) Mayur Basuk & Amit Sengupta, **“Application of Phase Change Materials to Enhance Thermal Properties of Textiles”**, Dye Chem Pharma Business News, September 2016, page 53 – 56.
- 52) Amit Sengupta, **“Nanotechnology: A driving force to produce future intelligent textile materials”**, Colourage, Aug 2016.
- 53) J. Udakhe, S. Honade, and N. Shrivastava, R.V. Adivarekar, **“Enhancing Disperse dyes dyeability with beta-cyclodextrin”**, International Dyer, Issue 5, 2016.



- 54) M. Basuk & A. Sengupta, **“Textile Nets – an Essential Accessory in Sportech”**, Colourage, September 2015.
- 55) A. Sengupta, M. Choudhari & S. Honade, **“Bio-chemical Assisted Eco- Friendly Processing of Wool”**, Colourage, July 2015.
- 56) M. Basuk & A Sengupta, **“Textiles for High Risk Sports”**, Textile Value Chain, February 2015.
- 57) A. Sengupta & J. Behera, **“Spider silk: Ancient biomaterial for functional textiles”**, Melliand International, Issue-1, 2015.
- 58) A. Sengupta & J. Behera, **“Light sensitive smart colour changing textiles”**, Asian Textile Journal, November 2014.
- 59) Jayant Udakhe, Neeraj Shrivastava, Smita Honade, **“Absolute and Relative Activity of Microencapsulated Natural Essential Oils against the Larvae of Carpet Beetle Anthrenus Flavipies (LeConte)”**, Journal of Textiles, Volume 2014 (2014), November 2014.
- 60) Neeraj Shrivastava, Jayant Udakhe & Smita Honade, **“Electrocoagulation as an Alternative Treatment for wastewater Generated from Scouring of Merino Wool”**, Indian Journal of Environmental Protection, Volume 34 Number 7, July 2014.
- 61) A. Sengupta & J. Behera, **“Light sensitive smart colour changing textiles”**, Asian Textile Journal, November 2014.
- 62) A. Sengupta & J. Behera, **“Environmental Safety through Recycling of Textiles: An Outlook”**, Colourage, India, August 2014.
- 63) A. Sengupta & J. Behera, **“Comprehensive view on chemistry, manufacturing & applications of lanolin extracted from wool pretreatment”**, American Journal of Engineering Research, USA, July 2014.
- 64) A. Sengupta, M. Basuk, A. Samanta & J Udakhe, **“A synopsis on functional sportech products for adventure sports”**, Textile Times, June-July 2014 pp 9, June-July 2014.
- 65) M.K. Bardhan and J.S. Udakhe, **“Next to skin easy care woolens by plasma and other eco-friendly technologies”**, "Plasma technologies for textile applications: Growth potential in India" Page Number 229-253, Woodhead publishing India Ltd. (2014) Mechanism of heat and Physiological factors affecting thermal performance of Sleeping bag Wool Tech, Volume 04 Issue No. 02/April 2014.



- 66) Jayant Udakhe, Neeraj Shrivastava & Smita Honade, **“Fragrance Release and Moth Repellent Activity of Natural Essential Oils”**, Colourage, Vol. LXI No. 5, Page No. 33-38, May 2014.
- 67) A.K. Samanta, **“Effect of blend ratio on yarn evenness and imperfections characteristics of wool/polyester ring spun yarn”**, Indian Journal of Fibre & Textile Research, Vol. 39, March 2014, pp. 89-92, March 2014.
- 68) Amit Sengupta & Jagadanand Behera, **“Organic baby skin-friendly sustainable textile draws wider attention”**, ATA journal for Asia on Textile & Apparel, Feb 2014.
- 69) Amit Sengupta & Jagadanand Behera, **“Waterproof breathable fabric characteristics, techniques and applications”**, Asian Textile Journal, Feb 2014.
- 70) Amit Sengupta, Mayur Basuk, **“Indian Carpet Industry and its way forward”**, Textile Asia, Jan. 2014.
- 71) M.K. Bardhan and J.S. Udakhe, **“Next to skin easy care woolens by plasma and other eco-friendly technologies”**, "Plasma technologies for textile applications: Growth potential in India" Page Number 229-253, Woodhead publishing India Ltd. (2014), 2014.
- 72) Amit Sengupta, Jaganand Behara, **“Comprehensive view on characteristics & applications of Smart chromic textiles”**, Colourage, 2014, page no 42-52.
- 73) Amit Sengupta, Jaganand Behara, **Light-sensitive smart colour changing textiles**, Asian Textile Journal, 2014, page no 54-64.
- 74) Amit Sengupta, Jaganand Behara, **“Smart chromic colourants draw wide attention for the growth of future Intelligent textile materials”**, Journal of Advance Research in Manufacturing, Material Science & Metallurgical Engineering, Vol 1, issue 2, 2014, page no 89-119.
- 75) Amit Sengupta & Jagadanand Behera, **“A review on Organic Wool”**, Colourage, Dec. 2013.
- 76) Amit Sengupta, Mayur Basuk, Aniket Bhute & Shishir Tyagi, **“Overview of Indian Sporting Goods and Equipment Industry”**, The Indian Textile Journal, Nov. 2013.
- 77) Amit Sengupta, Mrinal Choudhari & Naresh Kumar, **“Herbal Colorant Assisted Eco-friendly Green Textile Processing Part 1, 2 & 3”**, Dye Chem Pharma, Oct., Nov., Dec. 2013.



Wool Research Association

- 78) K.H. Prabhu and Naresh Kumar, **“Composite Textile Applications in Aerospace Technology”**, WTIN Online Web portal, UK, 3rd September, 2013.
- 79) Amit Sengupta, Jagadanand Behera & Mayur Basuk, **“Enzyme Assisted Eco-friendly Green Textile processing”**, Bangladesh Textile Today, September 2013.
- 80) Neeraj Shrivastava, Jayant Udakhe, Smita Honade **“Influence of Different Metal Electrodes on Electrocoagulation Process for Treatment of Disperse and Reactive Dye Wastewater”**, International Dyer, Issue 8, 2013.
- 81) Amit Sengupta & Jagadanand Behera, **“Lanolin – A value added product from wool grease Part 1 & 2”**, Dye Chem Pharma, Jul & August 2013, July & August 2013
- 82) Mrinal Choudhari & K.H. Prabhu, **“SPORTECH- Needs, Challenges and its Prospects”**, Dye Chem Parma, June, 2013, June, 2013.
- 83) K.H. Prabhu, **“Specialty Animal Hair Fibres”**, WTIN Intelligence web portal, UK, 6th March 2013.
- 84) Jayant Udakhe & Smita Honade, **“Plasma induced physico-chemical changes & dyeing behavior of wool fabrics”**, Colourage, Vol. LX No. 1, pages No. 41-46, January 2013.
- 85) K.H. Prabhu & Aniket Bhute, **“Plant based natural dyes and mordants: A Review”**, Journal of Natural Product and Plant Resources, 2 (6), pages 649-664, December 2012.
- 86) Mayur Basuk, Achintya Samanta & Girish Kherdekar, **“Wool in Medical Textiles”**, www.technicaltextile.net, October 2012.
- 87) Varun S. Goud, **“Influence of plasma processing parameters on mechanical properties of wool fabrics”**, Indian Journal of Fibre & Textile Research, Vol. 37, pp. 292-298 September 2012.
- 88) Aniket Bhute & Mayur Basuk, **“Enzyme oriented washing treatment for Hand Knotted Carpets Dyed with Natural Dyes (Part 2)”**, Dye Chem Pharma Business News, page 29 -31, September 2012.
- 89) Mayur Basuk & R. S. Bahuguni, **“Flame retardant wool based fabrics for home textile & Automobile Interiors”**, Man Made Textiles in India, Vol. XL, No.-6, Page no. 189-193 June 2012.
- 90) Jayant Udakhe, Shishir Tyagi, Neeraj Shrivastava, Smita Honade, Aniket Bhute, **“Effect of yarn hairiness, DBD plasma and enzyme treatment on itching propensity of woollen knitwear”**, Colourage Vol. LIX No. 5, Page no. 46-51, May 2012.



- 91) Achintya K. Samanta, Probal K. Majumder, **“Wet spinning of Flax yarn in cotton ring frame”**, The Indian Textile Journal, page no- 20-27, May 2012.
- 92) Mayur Basuk, Jayant Udakhe, **“From Micro Fibres to Nano Fibres”**, Textile Excellence, Vol. 9 No. 11, Page No. 18-19 December 2011.
- 93) V.S. Goud and J.S. Udakhe, **“Recent advances in wool and woolen processing”**, Published in the book “Trends in small ruminant production- Perspectives and Retrospect” pp 477, Indian Society for Sheep and Goat Production and Utilization, Central Wool Development Board and Central Sheep and Wool Research Institute December 2011.
- 94) Mayur Basuk, Girish Kherdekar, **“Developments in carpet processing”**, Colourage Vol. LVIII No. 12 Dec. 2011.
- 95) V.S. Goud, S.P. Honade, M.K. Bardhan, T.R. Rao, **“Effect of ultrasonic irradiation on wool scouring”**, Manmade Textiles in India, page no. 385-390, Vol. XXXIX No.11, November 2011.
- 96) Jayant Udakhe, Smita Hoande, Neeraj Shrivastava, **“Recent advances in shrink proofing of wool”**, Journal of the textile association, Vol. 72, No. 3, Sept-Oct 2011.
- 97) Varun S. Goud, **“Polymer-Layered Silicate Nanocomposites and Applications of Nano clays in Textiles”**, Asian Textile Journal, p.72, August 2011.
- 98) Achintya K. Samanta **“Comparative study of blended worsted yarn tensile properties, measured in different Principles of measurement”**, Journal of the Textile Association, Page No. 85 – 89, July – August 2011.
- 99) Varun S. Goud, **“Polymer-Layered Silicate Nanocomposites and Applications of Nano clays in Textiles”**, Asian Textile Journal, p.72, August 2011.
- 100) Girish Kherdekar, Mayur Basuk, Jagadanand Behera, **“Acoustic Textiles”**, Colourage vol- LVIII, No. 7, July 2011, pp43-53, July 2011.
- 101) Varun S. Goud, **“Keratin based bio-composites: A Review”**, Asian Textile Journal, June 2011.
- 102) Varun S. Goud & Jayant Udakhe, **“Effect of Low-temperature plasma treatment on tailorability and thermal properties of wool fabrics”**, Pramana – Journal of Physics Vol. 76, No. 6, pp. 1-9, June.
- 103) Jayant Udakhe, Shishir Tyagi, Neeraj Shrivastava, P. R. Kulkarni, C.W. Acharya & M.K. Bardhan, **“Development of Itch-Free Woolens to be worn next to the skin by Improvement of Surface Topography of Wool Fibres with the help of**



Wool Research Association

Mechanical/Chemical Processing and Plasma Technology” in Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.

- 104) V. S. Goud, S.P. Honade, M.K. Bardhan & T.R. Rao, **“Ultrasound Assisted Scouring of Raw Wool”** Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 105) V.C. Panse, A.K. Samanta, J. Behera & R.B. Chaudhari, **“To assess Quality Norms of Worsted Yarns being made by Indian Industry”** Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 106) C.W. Acharya & Girish Kherdekar, **“Synthesis of Moth Resist Dyes for Wool”** Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 107) P.R. Kulkarni & R.S. Bahuguni, **“Optimum machinery, process and products for eri silk/ wool blends”** Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 108) Mayur Basuk, **“New Opportunities & Future Prospects for Indian Hand Made Carpet Industry”** Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 109) Shishir Tyagi, **“Present scenario of Indian carpet industry vis-à-vis international markets”** Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 110) M.K. Bardhan, **“An Overview of Recent R&D Initiatives by Wool Research Association”** in Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 111) V. S. Goud, S.P. Honade, M.K. Bardhan & T.R. Rao, **“Ultrasound Assisted Scouring of Raw Wool”** in Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 112) M.K. Bardhan, **“An Overview of Recent R&D Initiatives by Wool Research Association”** Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 113) V.C. Panse, A.K. Samanta, J. Behera & R.B. Chaudhari, **“To assess Quality Norms of Worsted Yarns being made by Indian Industry”** in Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai,



Wool Research Association

28th May 2011.

- 114) C.W. Acharya & Girish Kherdekar , **“Synthesis of Moth Resist Dyes for Wool”** in Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 115) Mayur Basuk, **“New Opportunities & Future Prospects for Indian Hand Made Carpet Industry”** in Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 116) P.R. Kulkarni & R.S. Bahuguni, **“Optimum machinery, process and products for eri silk/ wool blends”** in Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 117) Shishir Tyagi, **“Present scenario of Indian carpet industry vis-à-vis international markets”** in Proceedings of the National Seminar cum workshop on Recent R&D initiatives and development schemes of wool & woolens, Mumbai, 28th May 2011.
- 118) Achintya Kr. Samanta & Aniket Bhute, **“Wool in sports textiles”** Colourage Vol. LVIII, No. 5, May 2011.
- 119) Jayant Udakhe & Shishir Tyagi, **“Effect of Plasma Density on Surface & Mechanical Properties of Wool Fibres”** in Manmade Textiles in India Vol. XXXIX, No. 4, SASMIRA, April 2011.
- 120) Mayur Basuk, **“Indian Handmade Carpet Industry Improving the Market Strategy”** in Seminar on Inclusive Growth of Carpet Industry (Published in Book of papers), All India Carpet Manufacturer’s Association (AICMA), Bhadohi, March 2011.
- 121) Mayur Basuk, Girish Kherdekar & Jagadananda Behera, **“Carpet Defects, Causes & their Remedies”**, Golden Jubilee Celebration of All India Carpet Manufacturer’s Association (AICMA) Bhadohi, (Published in Book of papers), March 2011.
- 122) Jayant Udakhe, Neeraj Shrivastava & Shishir Tyagi, **“Development of Itch-Free Woolens to Be Worn Next to the Skin by Improvement of Surface Topography of Wool Fibres with the Help of Mechanical/Chemical Processing and Plasma Technology”**, at Golden Jubilee Young Researchers' Symposium on Emerging Trends in Textiles/ Fibre Research & Innovative Applications (Published in Book of papers of the Symposium), IIT Delhi, March 2011.
- 123) Jayant Udakhe & Varun Goud, **“Melt Processing of Polyacrylonitrile (PAN) Polymers”** in Journal of the Textile Association, Vol. 71, No. 5, The Textile Association (India), January-February 2011.



Wool Research Association

- 124) Mayur Basuk, Girish Kherdekar & Jagadananda Behera, “**Carpet Defects, Causes & their Remedies**”, Colourage Vol. LVIII, No. 2, Colour Publications Pvt. Ltd., February 2011.
- 125) Jagadananda Behera, “**Wrinkle recovery finishing for cellulosic fabric**” in The Indian Textile Journal, January 2011.
- 126) P.R. Kulkarni, R.S. Bahuguni and Mayur Basuk, “**Design and development of wool based flame retardant fabrics**”, Proceedings of the national seminar on non- conventional applications of textiles (Published in Book of papers) CIRCOT, Mumbai, Dec 2010.
- 127) Neeraj Shrivastava and Smita Honade, “**Advances in wool processing for sustainability**”, Colourage Vol. LVII No. 12 Colour Publications Pvt. Ltd., December 2010.
- 128) Neeraj Shrivastava and Smita Honade, “**Advances in wool processing for sustainability**”, Colourage, December 2010, Page No. 59-64.
- 129) Neeraj Shrivastava and Smita Honade, “**Oxidative Processes in Effluent Treatment**”, Journal of the Textile Association, Vol. 71, No. 1, The Textile Association (India), May-June 2010.
- 130) Varun Goud, “**Auxetic Textiles**”, Colourage, Vol. LVII, No. 6, Colour Publications Pvt. Ltd., June 2010.
- 131) Girish Kherdekar, “**Fabrics made of Cotton Blended with Bamboo Bast Fibre**”, Text Asia, 41 (2010) 30, 2010.
- 132) Girish Kherdekar, “**Properties of Regenerated Cellulose (Bamboo)- Cotton MJS, Yarns**”, Melliland International, 1(16) (2010)15, 2010.
- 133) M.K. Bardhan,” **Advantage and disadvantage growth of Technical Textiles in India**”, Proceedings of the event Advantage India –Textiles & Apparels 2008.
- 134) M.K. Bardhan, A.K. Rakshit, “**Dope dyed Polyester Fibres from recycled PET Waste for use in Moulded Automotive Carpet**”, Journal of Industrial Textiles, Vol.34, Jan 2005, pp 167-179.
- 135) A.D. Sule, and M.K. Bardhan, “**Membrane Filtration Techniques –Part II Scope for minimizing effluent load**”, Indian J. of Fibres and Textile Research, Vol-26, 2001, pp 223., The Indian Textile Journal, 2004, pp 13.
- 136) A.D. Sule, R.K. Sarkar and M.K. Bardhan, “**Development of sportswear for Indian conditions**”, Manmade Textiles in India 2004, pp: 123-129.
- 137) M.K. Bardhan, “**Spinning fibres from Poly (ethylene Terephthalate) bottle grade**



- waste”, et al, Journal of Applied Polymer Science (JAPS), Dec. 2003, pp 3536–3545.
- 138) M.K. Bardhan, **“Products from PET Bottle Waste – a green dimension to Technical Textiles”**, et al, ‘Technical Textile International, Sept-Oct 2001.
- 139) P.R. Kulkarni, **“Design & Development of friction spun yarn for high tech textiles”**, Proceedings of the international seminar at SASMIRA during the year 2000.
- 140) P.R. Kulkarni, N.S. Pathak, S.V. Bhalerao, **“Unconventional fabrics for Automotive textiles”**, Express Textiles, Dec 2000.
- 141) P.R. Kulkarni, N.S. Pathak, S.V. Bhalerao, **“Elastomeric Friction spun yarns”**, Proceedings of the joint technological conference in ATIRA, Ahmedabad in the year 1998.
- 142) P.R. Kulkarni, **“Development of jute based friction spun yarns for technical textiles”**, Proceedings of the workshop conducted at WRA and University of Agricultural Sciences, Dharwad, 1998.
- 143) P.R. Kulkarni, N.S. Pathak, S.V. Bhalerao, **“Poly Vinyl Chloride fibres”** Synthetic Fibres, September 1997.
- 144) P.R. Kulkarni, N.S. Pathak, S.V. Bhalerao, **“Studies of heterogenous blending on scanning electron microscope”**, Asian Textile Journal, September 1997.
- 145) P.R. Kulkarni, N.S. Pathak, S.V. Bhalerao, **“Poly Vinyl Chloride fibres”** Synthetic Fibres, Sep 1997.
- 146) P.R. Kulkarni, N.S. Pathak, S.V. Bhalerao, **“Studies of heterogenous blending on scanning electron microscope”**, Asian Textile Journal, Sep 1997.
- 147) P.R. Kulkarni, **“Friction spun jute blended yarn on DREF-2 blankets, Dhurries, knitwear, furnishing and technical yarns”**, International Textile Monitor, August 1997.
- 148) P.R. Kulkarni, N.S. Pathak, S.V. Bhalerao, **“Elastomeric Friction spun yarns”**, Indian Textile Journal, June 1997.
- 149) P.R. Kulkarni, N.S. Pathak, S.V. Bhalerao, **“Asbestos vs DREF (Non asbestos) yarns”**, Indian Textile Journal, May 1997.
- 150) P.R. Kulkarni, N.S. Pathak, **“Engineering space age fabrics”**, Proceedings of the seminar held at Textile Engineering College, Sholapur at 1996.



Wool Research Association

- 151) P.R. Kulkarni, **“Prospects of diversified jute products made of friction spun yarns”**,
Manmade Textiles in India, October 1996.



Wool Research Association



