

DEPARTMENT OF TEXTILE TECHNOLOGY

AY 2025-2026

S.No	Faculty Name	Publication Details
1	Ariharasudhan.S	Arunraj, A., Ariharasudhan, S., Thambidurai, A., & Sundaresan, S. (2025). Fiber-reinforced composites developed using garment cut waste. <i>Melliand International</i> , 31(1), 58–60.
2	Sundaresan.S	Sundaresan, S., Ariharasudhan, S., & Thambidurai, A. (2025). Visibility clothing: An overview. <i>Asian Textile Journal</i> , 34(3), 53–59.
3	Ariharasudhan.S	Santhanam, S., & Subramanian, A. (2025). Sustainable polymer acoustic composites from waste cotton, coffee husk, and sawdust for functional applications. <i>Fibers and Polymers</i> , 26(6), 2557–2568. https://doi.org/10.1007/s12221-025-00962-9
4	Ariharasudhan.S	Dhanusya, P., Pachiyappan, K. M., & Ariharasudhan, S. (2025). Study on the effect of plasma treatment on moisture control properties in cotton-polyester blended knitted fabrics. <i>Man-Made Textiles in India</i> , 53(3), 94–97.
5	Sukanya Devi, R.	Prabhakaran, P., Dinesh, S., Fred Sajjo, T., Vinayagamoorthi, M. A., & Sukanya Devi, R. (2025, April). Experimental Study on Mechanical Behaviour of Reinforced Composite for Automotive Interior Panel applications. In 2025 3 rd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA) (pp. 1-6). IEEE.
6	Sukanya Devi, R.	Sukanya Devi, R., Saravanan, M., & Anita, S. (2025, June). Natural filter material using coir leaf sheath for erosion control in river banks. <i>Asian Textile Journal</i> , 54–57.

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AY 2024-25

S.No	Faculty Name	Publication Details
1	Ariharasudhan.S	Ariharasudhan, S., Sundaresan, S., Selvaraj, S. K., Ramratan, Worku, A., & Santhanam, S. (2024). Studies on sugarcane bagasse/jute fibers reinforced bio-composites for functional thermal insulation materials. Journal of Engineered Fibers and Fabrics, 19.
2	Ariharasudhan.S	Subramanian, A., Selvaraj, S. K., Mani, R., Chandrasekaran, P., Kunjuraman, S., Guru, R., & Santhanam, S. (2024). Utilizing Waste Cotton/Pigeon Pea Stalk Fibers Composites for Enhanced Sound Absorption and Insulation in Automotive Interiors. Journal of Natural Fibers, 21(1), 2333940.
3	Ariharasudhan.S	Gracy P., Pachiyappan K.M., Ariharasudhan S., Sundaresan S.(2024) Study on colour strength and fastness properties of cotton fabric dyed with pomegranate peel extraction Man-Made Textiles in India, 52 (3), pp. 93 – 96
4	Saravanan. D	Sivakumar, K., Saravanan, D., Mani, K., Krithika, S.M.U., Saravanan, K., Prakash, C. (2024) Antimicrobial, UV-repellent and comfort properties of various herbal treated fabrics Indian Journal of Fibre and Textile Research, 49 (1), pp. 58-62.
5	Saravanan. M	M. Saravanan (2024) Effect of natural agents on the mechanical and flame retardant properties of cotton fabrics – finishing technique, The Journal of The Textile Institute, DOI: 10.1080/00405000.2024.2398281
6	Chandrasekaran.P	Chandrasekaran, P., Rameshbabu, V., Prakash, C. (2024), Advancements in Basalt composite automobile bumpers and performance evaluation through finite element analysis Polymer Bulletin, 81 (7), pp. 6073-6090.
7	Natarajan.S	Sivanesan, N., Ariharasudhan, S., V, R. B., & Santhanam, S. (2024). Process Optimization for Coating of Acanthus Illicifolius Extract on Silk Sutures. AATCC Journal of Research, 11(5), 363-375.

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AY 2023-24

S.No	Faculty Name	Publication Details
1	Sukanya Devi, R.	Devi, R. S., & Dhurai, B. (2023). Synthesis of silver nanoparticles using Pongamia pinnata leaf extract for efficient removal of acid Brilliant Red 3BN dye under solar irradiation. <i>DESALINATION AND WATER TREATMENT</i> , 315, 373-386.
2	Chandrasekaran.P	Chandrasekaran, P., Rameshbabu, V., & Prakash, C. (2023). Advancements in Basalt composite automobile bumpers and performance evaluation through finite element analysis. <i>Polymer Bulletin</i> , 1-18.
3	Ramesh Babu.V	Vidya, T., Prakash, C., Babu, V. R., Rajwin, A. J., Shah, B. A., & Roy, R. (2023). Thermal properties of different kinds of polyester knitted fabrics. <i>Indian Journal of Fibre & Textile Research (IJFTR)</i> , 48(3), 295-301.
4	Natarajan.S	Natarajan, S., Babu, V. R., Ariharasudhan, S., Chandrasekaran, P., & Sundaresan, S. (2023). Investigating the Effect of Knot Configuration and Suture Diameter on the Knot Performance of Silk Sutures. <i>Tekstilec</i> , 199-210.
5	Ramesh Babu.V	Moorthi, M., Chidambaram, P., & Venugopal, R. (2023). Study on thermal comfort behaviour of seams made of micro-denier polyester sewing thread for high active sportswear. <i>Hemijaska industrija</i> , (00), 6-6.
6	Ramesh Babu.V	Vidya, T., Prakash, C., Rajwin, A. J., Babu, V. R., Shah, B. A., & Reetuparna, R. (2023). Effect of plasma treatment on polyester knitted fabrics: Part II—Moisture management properties. <i>Indian Journal of Fibre & Textile Research (IJFTR)</i> , 48(1), 13-18.
7	Saravanan. M	Saravanan, M., & Dhinakaran, M. (2023). Effect of alkaline hydrolysis on low-stress mechanical properties of polyester/cotton blended weft knitted fabrics. <i>Indian Journal of Fibre & Textile Research (IJFTR)</i> , 48(2), 167-173.
8	Natarajan.S	Natarajan, S., Rameshbabu, V., Ariharasudhan, S., Hayavadana, J., Rajpurohit, T., & Prakash, C. (2023). Antimicrobial properties of Acanthus ilicifolius and determination of phytochemical composition. <i>Biomass Conversion and Biorefinery</i> , 1-8.
9	Saravanan. D	Sivakumar, K., Saravanan, D., Krithika, S. U., & Prakash, C. (2023). Effect of Blend Ratio and Fabric Structure on Thermal Comfort Properties of Organic Cotton/Microdenier Polyester Knitted Fabrics. <i>Journal of Testing and Evaluation</i> , 51(5).
10	Saravanan. D	Mariappan,G.,Saravanan,D..(2023),Effect of mordant on dyeing of cotton fabric with red soil, <i>Asian Dyer</i> ,20(1) , 39-1

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AY 2022-2023

S.No	Faculty Name	Publication Details
1	Saravanan. M	Saravanan, M. (2022). An attempt to develop antibacterial fabric for foodborne bacteria. Journal of Testing and Evaluation, 50(3), 20210377 DOI:10.1520/JTE20210377
2	Saminathan/R	Pragati, B., Utpal, J., Saminathan, R. (2022). Assessment of changes in corn husk fibres after acid treatment. Tekstilec, 65(2), 106-112. DOI: 10.14502/tekstilec.65.2021061.
3	Saravanan. M	Saravanan, M. (2022). A Study on the influence of natural agents on the absorption properties of cotton fabrics – Part 1. Journal of Testing and Evaluation, 50(4):20210740. DOI:10.1520/JTE20210740
4	Saravanan. M	Saravanan, M. (2022). Effect of natural agents on the mechanical and flame retardant properties of cotton fabric-dyeing technique. Journal of Testing and Evaluation, 50(4), 10.1520/JTE20210773.
5	Saravanan. M	Saravanan, M. (2022). A study on the influence of natural agents on the absorption properties of cotton fabrics - Part Two. Journal of Testing and Evaluation, 50(4), 2022, 10.1520/JTE20210741.
6	Saravanan. M	Saravanan, M., Avanthiga Abirami, G., Manoj Kumar, R., Gunasundar, M. (2022). Development of natural multifunctional mask. Asian Dyer, 19(4), 57-60.
7	Sivakumar.P	Sivakumar, P., Prakash, C., Ramesh Babu, V., Saravanan, D. (2022). Development of secondary layer of wound dressing material using chitosan and investigation for hemostatic efficiency. Journal of Natural Fibers, 19(14), 8044-8050. DOI 10.1080/15440478.2021.1958434.
8	Ramesh Babu.V	Saikia, M., Gogoi, N., Bhuyan, S., Ramesh Babu, V., Ariharasudhan, S. (2022). Evaluation of physical and mechanical properties of Bhindi Jute- blended fabric and development of eco-friendly products. Journal of Natural Fibers, 19(14), 8165-8180. DOI: 10.1080/15440478.2021.1961338
9	Sundaresan.S	Sundaresan.s, Arunraj,A, Ariharasudhan,S, Chandrasekaran,P. Thambidurai,A, Ramesh babu,V(2022), Facemask and its developments – A review, Colourage 38-46,
10	Saravanan. M	Saravanan,M. (2022). Development of thespesia populnea doped PVA electrospun mat for biocompatibility studies. Journal of Natural Fibres, 19(5), 1951-1961. doi.org/10.1080/15440478-2021-2002773.
11	Ariharasudhan.S	Suganthi, S., Pachiyappan, K.M., Ariharasudhan, S., Sundaresan, S. (2022). Comparative study of moisture characteristics of knitted structures . Journal of the Textile Association, 83(3), 168-173, https://doi.org/10.17605/

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12	Ramesh Babu.V	Sadhna., Rajesh Kumar., Maanvizhi, M., Prakash, C., Ramesh Babu, V., Indu, G.K. (2022). Impact of stitch density on tactile comfort properties of seams. <i>AATCC Journal of Research</i> , DOI:10.1177/24723444221132318
13	Ariharasudhan.S	Ariharasudhan, S., Chandrasekaran, P., Dhinakaran, M., Rameshbabu, V., Sundaresan, S., Natarajan, S., & Arunraj, A. (2022, November). Study of banana/cotton blended nonwoven fabric for lead and zinc adsorption. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 170008). AIP Publishing LLC.
14	Dhinakaran.M	Dhinakaran, M., Ariharasudhan, S., Rajkumar, G., & Thangeswaran, P. (2022, November). Effect of alkali pretreatment on dyeing behavior of Lyocell fibre. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1). AIP Publishing.
15	Dhinakaran.M	Rajkumar, G., Naik, P. M., & Dhinakaran, M. (2022, November). Experimental investigation on mechanical properties of hybrid protein fiber composites and its optimization using Box Behnken experimental design. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1). AIP Publishing.
16	Dhinakaran.M	Rajkumar, G., Kanakaraj, P., & Dhinakaran, M. (2022, November). Eco friendly finishing of cotton fabric for mosquito repellency with Carica papaya. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1). AIP Publishing.
17	Chandrasekaran.P	Chandrasekaran, P., Babu, V. R., Ariharasudhan, S., Sundaresan, S., Arunraj, A., & Natarajan, S. (2022, November). Study on hybrid composites for roofing applications. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 040003). AIP Publishing LLC.
18	Sundaresan.S	Sundaresan, S., Arunraj, A., Chandrasekaran, P., Ariharasudhan, S., & Thambidurai, A. (2022, November). Comfort behavior of woven sheeting fabrics. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 090004). AIP Publishing LLC.
19	Sundaresan.S	Sundaresan, S., Arunraj, A., Chandrasekaran, P., Ariharasudhan, S., & Thambidurai, A. (2022, November). Behavioral study of composite made from sisal-jute-kenaf yarn. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 090005). AIP Publishing LLC.
20	Ramesh Babu.V	Babu, V. R., Arunraj, A., Ariharasudhan, S., & Chandrasekaran, P. (2022, November). Investigating the effect of laundering on the polyester/cotton sewing thread mechanical properties. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 090001). AIP Publishing LLC.
21	Ramesh Babu.V	Babu, V. R., Karunamoorthy, B., Arunraj, A., & Natarajan, S. (2022, November). Measurement of garment dimension based on switching median filter used in image processing. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 090002). AIP Publishing LLC.
22	Bhaarathi Dhurai	Gurumallesh, P., Ramakrishnan, B., & Dhurai, B. (2022, November). Banana peel metalloprotease characterizations. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1). AIP Publishing.
23	Bhaarathi Dhurai	Senthil, N., & Dhurai, B. (2022). Knittability enhancement study of 100% linen yarn using softeners. <i>Journal of Natural Fibers</i> , 19(12), 4393-4402.

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24	Sukanya Devi, R.	Devi, R. S., Dhurai, B., & Sivakumar, P. (2022, November). Adsorption of acid dyes from wastewater using Azadirachta Indica neem (leaf) biochar. In AIP Conference Proceedings (Vol. 2446, No. 1, p. 030002). AIP Publishing LLC.
25	Sukanya Devi, R.	Devi, R. S., Ramkumar, A., Vijayaprabhu, R., & Saravanan, M. (2022, November). Development of fluid absorption and wet back tester for absorbent pads. In AIP Conference Proceedings (Vol. 2446, No. 1, p. 090006). AIP Publishing LLC.
26	Saravanan. M	Saravanan, M., & Elakkiya, K. (2022, November). Development of herbal doped electrospunmat for hemorrhoids. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 020009). AIP Publishing LLC.
27	Saravanan. M	Saravanan, M., & Iniya, R. (2022, November). Water repellent cloth carry bags for packaging applications. In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 090011). AIP Publishing LLC.
28	Saravanan. D	Saravanan, D., Gokilakrishnan, G., & Raajeshkrishna, C. R. (2022). Effect of carbon/kevlar reinforcement and hybrid order on mechanical properties of glass/epoxy composites. <i>Advances in Materials and Processing Technologies</i> , 8(3), 3377-3388.

DEPARTMENT OF TEXTILE TECHNOLOGY

AY 2021-2022

S.No	Faculty Name	Publication Details
1	Saravanan. D	Saravanan, D., Gopalakrishnan, M. (2021). Effect of mordant and dye concentration on durability of red soil dye on cotton fabrics. Melliand International. 1, 36.
2	Saravanan. D	Vijayasekar, R., Saravanan, D. (2021). Studies on needle punched nonwoven fabrics made from natural fiber blends for oil sorbent applications. Journal of Industrial Textiles, 51(5), 8092S-8106S. doi:10.1177/1528083721999360
3	Ramesh Babu.V	Geethanjali, T., Prakash, C., Babu, V.R., Rajwin, A.J. (2021). Thermal comfort properties of bamboo/silk fabrics. Fibres and Textiles in Eastern Europe, 29(2), 36–40.
4	Saravanan. D	Gopalakrishnan, M., Saravanan, D., Selvakumar, A. (2021). Herbal finish for antimicrobial activity of textile materials: A review. Asian Textile Journal, 30(4), 41–47.
5	Ramesh Babu.V	Mohapatra, S., Vidya, T., Vasanth K.D., Jebastin, R.A., Babu, R.V., Prakash, C., Anas, S.B., Reetuparna, R. (2021). Study of thermal comfort properties of different kinds of polyester knitted fabrics. Fibres and Textiles in Eastern Europe, 29(5), 50–55.
6	Natarajan.S	Natarajan, S., Rameshbabu, V., Ariharasudhan, S. (2021). Investigating the braiding parameters and their effects on the mechanical and frictional properties of silk sutures. Journal of Industrial Textiles, online November 8, 2021. https://doi.org/10.1177%2F15280837211055128 .
7	Saravanan. M	Saravanan, M., Sangeetha, M., Priyakanth, K., Nagaraj, J. (2021). Design and development of eco-banners. Asian Textile Journal, 30(7-8), 45-51.
8	Saravanan. M	Saravanan, M. (2021). A scientific study on drape measurement. Asian Textile Journal, 30(10), 21-27.
9	Saravanan. M	Saravanan, M., Jhakan Prasad, S.L., Boobesh, V.S., Dinesh Raja, E.S. (2021). Increased seat comfort in motorcycles, Asian Technical Textiles.
10	Ariharasudhan.S	Ariharasudhan, S., Ramesh Babu, V., Chandrasekaran, P., Sundaresan, S. (2021). Modified cotton needle-punched nonwoven fabric for liquid sorption. Man-Made Textiles in India, 49(7), 231–234.